Motors

TERMS AND CONDITIONS OF SALE V.J. PAMENSKY CANADA INC.

1. EXCLUSIVE CONDITIONS OF SALE: This Quotation or Order is subject to terms and conditions contained here-in and supersedes Buyer's Specification and/or Purchase Order. Seller will recognize no modifications or additions to these conditionsunless specifically agreed to in writing by Seller. Failure of Seller to object to provisions contained in the Purchaser's Order or any other communication from Buyer shall not be construed as a waiver of these conditions or an acceptance of any such provisions. If Buyer places an Order with Seller based on Seller's Quotation, whether the Order is placed in writing or orally, then the Quotation (including Seller's terms and conditions) and the Seller's acceptance of the Order will constitute the entire contract between Buyer and Seller with respect to the subject matter thereof notwithstanding any terms and conditions inconsistent with these terms and conditions on any of Buyer's forms or correspondence. All orders, sales contracts and other documentation between Buyer and Seller shall become effective only when approved and accepted by the Seller.

2. PRICES: Prices quoted herein are based upon presently prevailing duties, rates of duties, taxes, special assessments, monetary exchange and freight as applied to materials and/or equipment purchased or imported by Seller. Seller reserves the right to amend the price(s) in this quotation where variations in regulated costs such as rate of duties, taxes, special assessments, monetaryexchange and freight between the date of quotation and date of delivery are deemed significant by the Seller.

3. TERMS OF PAYMENT: The standard terms of payment are Net-30 Days from date of invoice, with a service and interest charge of 1-1/2% per month (18% per annum) on past due invoices applying. If Buyer defaults in any payment when due or refuses to accept delivery or becomes insolvent, the Seller at its option, without prejudice to other lawful remedies, may defer deliveries or cancel the remainder of the order. Equipment held for Buyer shall be at the risk and expense of Buyer and payment shall become due from the date of which Seller is prepared to make shipment. Printed terms on face of our Quotation will take precedence.

4. TITLE: Title to the goods covered by this Quotation and the right to immediate possession thereof shall remain with the Seller until the purchase price is paid in full and Buyer hereby grants to Seller a security interest in the equipment (and all proceeds thereof) to secure the Buyer's obligation to pay for the equipment.

5. CERTIFICATIONS AND TAXES: Prices do not include sales, use or other similar federal, state or local taxes. Any certification for special duty or tax rate must be supplied at time of order. A service charge will be applied on any credit notes necessitated by the Buyer not providing proper certification at time of order. Exception from taxes extended to the buyer does not prejudice our right to charge the buyer with taxes plus any penalties assessed at any subsequent date should the taxing authorities determinethat the equipment is taxable.

6. PENALTIES AND DELAYS: No penalty clause of any kind, in any specification of order will be effective unless specifically approved in writing by Seller. Seller shall not be liable for any damage, expenses or consequential damages caused by delays beyond Seller's control including without limiting the generality of the foregoing; fire, strike, act of the Buyer, restriction by civil or military authority, Act of God, transportation failures or inability to obtain labor, materials or manufacturing facilities. In the event of any such delay, the date of delivery shall be extended for a period equal to the time lost by reason of the delay.

7. CANCELLATION: Orders once accepted are not subject to cancellation unless on terms that will indemnify Seller against loss and/or expenses incurred.

8. SHIPMENT: Unless otherwise specified in writing, all shipments are EX-WORKS (Incoterms 2000) Seller's shop, in which case Seller is not responsible for damage, apparent or concealed, or loss in transit and all claims on "collect" shipments must be made by Buyer direct to the carrier. Seller will assist insofar as practical in securing satisfactory adjustment to reasonable claims.

9. ACCEPTANCE, INSPECTION: By virtue of Buyer issuing an order for equipment in accordance with this Quotation, he also accepts Seller's Terms and Conditions as part of the order. Buyer shall inspect the goods immediately upon the receipt thereof. All claims by Buyer (including claims for shortages), except only those provided for under the WARRANTY clauses below, must be asserted in writing by Buyer within a 10 day period or they are waived. If this contract involves partial performances, all such claims must be asserted within a 10-day period for each partial performance.

10. WARRANTY: Seller warrants to the Buyer that its products are free from defects in workmanship and materials when operated under normal conditions and in accordance with nameplate characteristic limits. This warranty will be in effect for the following time period and for the following products:

Low voltage standard efficiency motors NEMA & IEC frames are warranted for a period of 12 months from date of installation, but not more than 18 months from date of manufacture.
EPACT & NEMA Premium Efficiency motors both NEMA & IEC frames are warranted for a period of 24 months from date of installation but for not more than 30 months from date of manufacture.
IEEE841 motors are warranted for a period of 60 months from date of installation but for not more than 66 months from date of manufacture.
Machines & Generators are warranted for a period of 12 months from date of installation, but not more than 18 months from date of manufacture. These products include but are not limited to; Above NEMA size Motors: low voltage, medium voltage and high voltage, DC motors, Turbo Generators, Hydro Generators, Synchronous Motors, and Wound Rotor Motors.
Automation products (variable frequency drives and soft starters) and Electrical components are warranted for a period of 18 months from date of installation, but not more than 24 months from date of manufacture. If any defects are claimed by the Buyer during the

warranty period, Seller's sole obligation shall be limited to alteration, repair or replacement at Seller's expense, EX-WORKS (Incoterms 2000) Seller's shop, on parts or equipment which upon return to Buyer and upon Buyer's examination prove to be defective. UNLESS OTHERWISE SPECIFIED IN WRITING HEREIN, THERE ARE NO REPRESENTATION, WARRANTIES OR CONDITIONS, EXPRESSED OR IMPLIED STATUTORY OR OTHERWISE, EXCEPT FOR THE FOREGOING AND WITHOUT LIMITING THE GENERALITY OF THE ABOVE, THERE ARE NO EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES CONCERNING THE QUALITY OF THE EQUIPMENT OR THAT ANY SUCH EQUIPMENT WILL BE FIT FOR ANY PARTICULAR PURPOSE OF THE PURCHASER. THE SELLER SHALL HAVE NO OBLIGATION TO REPAIR OR REPLACE SUCH PRODUCTS OR PARTS UNLESS IT RECEIVES AT ITS OFFICES IN CANADA WRITTEN NOTICE OF SUCH DEFECT WITHIN THE ABOVE-MENTIONED WARRANTY PERIOD.

This warranty does not cover the cost of transportation, labor, removal, installation, or re-testing of the new or repaired goods or parts, or any other direct or incidental expenses incurred in shipping the product to or from Seller. Replacement goods or parts are warranted for the remainder of the warranty period applicable to the goods originally supplied by the seller. No warranty shall apply to any equipment upon which repairs or alterations have been made unless authorized by Seller, nor to equipment which hasbeen subjected to misuse, negligence or mishandling.

11. DAMAGES: Subject to the balance of the provisions of this clause, Seller shall only be liable for the cost of replacement of any defective Equipment provided hereunder. Seller shall not be liable to the Buyer in any circumstances for any incidental, special, consequential or indirect damages, including but not limited to loss of profits or revenue, loss of use of equipment and facilities, and claims by or payments to customers, suppliers or other parties who have a relationship with the Buyer. This disclaimer applies to consequential damages based upon any cause of action whatever asserted against Seller including causes of action arising out of any breach of warranty, express or implied, guarantee, product liability, negligence, tort, or any other cause pertaining to the performance or non-performance of this Quotation or contract by Seller and the Buyer hereby waives any right to claim punitive,aggravated or exemplary damages with respect to a breach of this Quotation or the performance or non-performance of the Equipment, and whether such claim is founded in contract, tort or otherwise. Seller shall not be responsible for losses or damages arising out of the negligence of the Buyer, its' employees, agents or third party contractors. In no event will Sellers maximum liability to the Purchaser in connection with the Equipment, including without limitation resulting from breach of contract or any other performance or non-performance of this Quotation or contract, exceed the amount of the purchase price paid to Seller hereunder.

12. RETURNING EQUIPMENT: No equipment is to be returned without first obtaining from Seller shipping instructions and a return material identification number and agreement in writing as to terms. Returned equipment, which Seller elects to accept for credit is subject to reasonable handling and restocking charge commensurate with the policy of the manufacturer plus all charges incurred by Seller. Seller is not responsible for equipment that is returned without complying with the foregoing. Equipment is returned at the expense and risk of the Buyer. Returned equipment must be in the original packaging and unused.

13. PRIVILEGE AND LIEN RIGHTS: Seller retains all lien rights with regard to the equipment in accordance with any Builder's Lien Act, Mechanic's Lien Act, Builder and Works Act or other legislation passed pursuant to or in replacement thereof.

14. BACK CHARGES: Seller will accept no back charges for any reason without Seller's written permission to incur such back charges.

15. TECHNICAL ADVICE: Any technical advice furnished or recommendation made by Seller or any representative of Seller concerning any use or application of any of the goods is believed to be reliable, but SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, ON RESULTS TO BE OBTAINED. BUYER ASSUMES ALL RESPONSIBILITY FOR LOSS OR DAMAGE RESULTING FROM THE HANDLING OR USE OF ANY OF THE GOODS.

16. INVALIDITY: If any provision of this contract shall be found to be invalid or illegal by reason of any determination made by a court of competent jurisdiction or any governmental authority having jurisdiction in the circumstances, such provisions shall be severed from this contract to the extent of such invalidity or illegality and the validity, legality or enforceability of the remaining provisions of this contract shall not in way be affected or impaired thereby. Waiver of any default shall not be a waiver of any other or subsequent default.

17. GST NUMBER: V.J. Pamensky Canada Inc. GST Number is 105553648

18. APPLICABLE LAWS AND FORUM: This contract shall be interpreted in accordance with and shall be governed by the laws of the Province of Ontario, and the parties agree that any disputes hereunder or with respect to this quotation or the resulting contract between the parties shall be determined exclusively by the Courts in the Province of Ontario, and the parties hereby expressly attorn to the exclusive jurisdiction of the Courts in the Province of Ontario.

19. LANGUAGE: The parties acknowledge that they have required that this contract and all related documents be prepared in English. Les parties reconnaissent avoir exige que la présente convention et tous les documents connexes solent rédigés en anglais. If the Buyer requests, a French version of this agreement will be used.

20. LIABILITY: Notwithstanding anything to the contrary herein contained, the Liability of the Seller under any circumstances whatsoever and without exception shall be limited to the Purchase Price of the particular item forming part of the goods.

This catalog will be periodically updated with new and
updated pages. The current version can be found on our website
www.pamensky.com or can be requested from
V.J. Pamensky Canada Inc.
1 877 PAMENSKY

M09 - Date (mm/yy) 01/24

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General Purpose Motors Feature Comparison

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Enclosure	TEFC	TEFC	TEFC	TEFC	TEFC
Degree of Protection	IP55	IP55	IP55	IP55	IP55
Efficiency	NEMA Premium	NEMA Premium	Super Premium		NEMA Premium
HP Range	1 - 25 HP	1 - 750 HP	1 – 250 HP	125 - 600 HP	1 - 700 HP
Frame Size Range	143/5T - 254/6T	143/5T - 588/9T	143/5T – 586/7T	L447/9T - 588/9T	143/5T - 588/9T
Frequency	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50Hz - Optional
Power (Phase)	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase
Voltage	208-230/460V, 575V	208-230/460V, 575V	230/460V, 575V	1200V, 2300V, 2400V, 3300V, 4000V, 4160V & 6600V	460V & 575V
Service Factor	1.15	1.25 - 1 to 100HP 1.15 - 125 and up	1.25	1.15 Some frames have 1.00 SF, see page 1.26 for details.	1.25 - 1 to 100HP 1.15 - 125 and up
Electrical Design	NEMA Design 'B'	NEMA Design 'B'	NEMA Design 'A'	NEMA Design 'B'	NEMA Design 'B'
Insulation	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31
Temp. Rise	Class B - 80K	Class B - 80K	Class B - 80K	Class B - 80K	Class B - 80K
Frame	Rolled Steel	Cast Iron	Cast Iron	Cast Iron	Cast Iron
End Shields	Aluminum	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Terminal Box	Aluminum	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Fan Cover	Plastic - 143/5T Steel Plate - 182/4T and up	Steel - 143T to 215T Cast Iron - 254T and up	Steel - 143T to 215T Cast Iron - 254T and up	Cast Iron	Cast Iron
Fan	Plastic	Plastic	Plastic	Plastic - 2P up to 586/7TS Aluminum - 4-8P and 2P 588/9T	Plastic
Rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor
Shaft	1045 heat treated and stress relieved carbon steel	1040/45 - up to 364/5T and all 2P motors 4140 - 404/5T and up	1040/45 - up to 364/5T and all 2P motors 4140 - 404/5T and up	4140	1040/45 - up to 364/5T and all 2P motors 4140 - 404/5T and up
Shaft Seal / Slinger	V'Ring	V'Ring - up to 324/6T WSeal - 364/5T to 504/5T Labyrinth Taconite - 586/7T and up	V'Ring - up to 324/6T WSeal - 364/5T to 504/5T Labyrinth Taconite - 586/7T and up	WSeal	Labyrinth Taconite
Drain Plug		Rubber Drain Breathers	Rubber Drain Breathers	Rubber Drain Breathers	Stainless Steel Drain/Breather Plug
Nameplate	Mylar	Stainless Steel - Laser Etched	Stainless Steel - Laser Etched	Stainless Steel - Laser Etched	Stainless Steel - Laser Etched
Paint Plan	207N - 143/5T 207A - 182/4T & 213/5T 203A - 254/6T Munsell N1 - Flat Black	207A - up to 213/5T 203A - 254/6T and up RAL 5009 (Blue)	207A - up to 213/5T 203A - 254/6T and up RAL 6002 (Green)	203A RAL 5009 (Blue)	202E RAL 5009 (Blue)
Area Classification		Class I, Div II, Groups A,B,C & D Class II, Div II, Groups F & G	Class I, Div II, Groups A,B,C & D Class II, Div II, Groups F & G	Class I, Div II, Groups A,B,C & D Class II, Div II, Groups F & G	Class I, Div II, Groups A,B,C & D Class II, Div II, Groups F & G
VFD Rating	2 Pole: 10:1 CT / 1000:1 VT 4 Pole: 4:1 CT / 1000:1 VT	WEG VFD 100:1 CT / 1000:1 VT Any VFD 20:1 CT / 1000:1 VT	WEG VFD 100:1 CT / 1000:1 VT Any VFD 20:1 CT / 1000:1 VT	10:1 CT / 10:1 VT	WEG VFD 100:1 CT / 1000:1 VT Any VFD 20:1 CT / 1000:1 VT

General Purpose Motors Feature Comparison

	Explosion Proof Page	W01 Rolled Steel ODP Page	W40 NEMA Premium Efficiency Page	W40 Medium Voltage Page	W22 IEC Tru-Metric Page
					
Enclosure	TEFC	ODP	ODP	ODP	TEFC
Degree of Protection	IP55	IP21	IP23 - Standard IP24/IPW24 - Optional for frames L5010/11 and up	IP23 - Standard IP24/IPW24 - Optional for frames L5010/11 and up	IP55
Efficiency	NEMA Premium	NEMA Premium	NEMA Premium		NEMA Premium
HP Range	1 - 500 HP	1 - 25 HP	15 - 1250 HP	350 - 2500 HP	0.75 - 355 kW
Frame Size	143T - 586/7T	143/5T - 254/6T	254T - L5810/11	5010/11 - L6808/09	63 - 355M/L
Frequency	60 Hz	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50Hz - Optional	60 Hz - Standard 50 Hz - Optional
Power (Phase)	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase
Voltage	208-230/460V, 575V	208-230/460V, 575V	208-230/460V, 575V	1200V, 2300V, 2400V, 3300V, 4000V, 4160V & 6600V	460//220-240/380-415V - 63 to 100L 460//380-415V - 112M to 355M/L 575V
Service Factor	1.15	1.15	1.15	1.15	1.25 - up to 315L 1.15 - 355 M/L * 60Hz only
Electrical Design	NEMA Design 'B'	NEMA Design 'B'	NEMA Design 'B'	NEMA Design 'B'	Design 'N'
Insulation	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31
Temp. Rise	Class B - 80K	Class B - 80K	Class B - 80K	Class B - 80K	Class B - 80K
Frame	Cast Iron	Rolled Steel	Cast Iron	Cast Iron	Cast Iron
End Shields	Cast Iron	Aluminum	Cast Iron	Cast Iron	Cast Iron
Terminal Box	Cast Iron	Aluminum	Cast Iron	Cast Iron	Cast Iron
Fan Cover	Steel - 143T to 215T Cast Iron - 254T and up	Plastic - 143/5T Steel Plate - 182/4T and up	N/A	N/A	Steel - up to 132 Cast Iron - 160 and up
Fan	Plastic - up to 326T Aluminum - 364/5T and up	Plastic	Cooling system with finned rotor	Cooling system with finned rotor	Plastic - up to 315S/M and 2P motors Aluminum - 315L and up
Rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor	Die cast aluminum squirrel cage rotor
Shaft	1040/45 - up to 364/5T and all 2P motors 4140 - 404/5T and up	1045 heat treated and stress relieved carbon steel	1040/45 - up to 364/5T and all 2P motors 4140 - 404/5T and up	1040/45 - for all 2P motors 4140 - for 4P motors	1040/45 - up to 315S/M 4140 - 315L and up
Shaft Seal / Slinger	Internal Oil/Lip Seal	N/A	N/A	N/A	V'Ring - up to 200L WSeal - 225S/M to 355M/L
Drain Plug	Brass drain/breather - 254T and up	N/A	N/A	N/A	Rubber Drain Breathers
Nameplate	Stainless Steel - Laser Etched	Mylar	Stainless Steel - Laser Etched	Stainless Steel - Laser Etched	Stainless Steel - Laser Etched
Paint Plan	202P RAL 5009 (Blue)	207N - 143/5T 207A - 182/4T & 213/5T 203A - 254/6T Munsell N1 - Flat Black	207A - up to 213/5T 203A - 254/6T and up RAL 5009 (Blue)	203A RAL 5009 (Blue)	207A - up to 132M 203A - 160M and up
CSA Area Classification	TEMP CODE T3C CSA / UL: Class I, Div II, Groups C & D CSA: Class II, Div I, Groups F & G CSA: Class I, Zone 1, IIB TEMP CODE T4 with a max SF 1.15, not as Inverter Duty, max ambient temp of 40°C.	Safe Area	254T to 447/9T: Safe Area 5010/11 and up: Class I, Div II, Groups A,B,C & D Class I, Zone 2, IIC	Class I, Div II, Groups A,B,C & D Class I, Zone 2, IIC	Class I, Div II, Groups A,B,C & D Class II, Div II, Groups F & G Class I, Zone 2, IIC
VFD Rating	20:1 CT (Any VFD) 1000:1 CT (WEG VFD) 1000:1 VT (Any VFD)	2 Pole - 3:1 CT 4 Pole - 5:1 CT 1000:1 VT	10:1 CT 10:1 VT Other speed ranges available. Please call for details	10:1 CT 10:1 VT Other speed ranges available. Please call for details	20:1 CT (Any VFD) 100:1 CT (WEG VFD) 1000:1 VT (Any VFD)

W01 Rolled Steel NEMA Premium Eff. Motors
TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- V’Ring sealing
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207N - Frame 143/5T
  - 207A - Frame 182/4T & 213/5T
  - 203A - Frame 254/6T
- Color: Munsell N1 - Flat Black
- All frames have dual mounting

Class I, Div 2, Groups A,B,C & D
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 254/6T	2 Pole	10:1	1000:1	Any
	4 Pole	4:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Oil Seal, Lip Seal
- Thermostats, Thermistors, RTD’s (PT100)
- Drip cover (canopy) for shaft down applications
- NEMA C flange for all ratings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Forced ventilation
- No feet

W01 Rolled Steel NEMA Premium Eff. Motors

TEFC - Purchasing & Electrical Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM					460V	575V				
1	3600	143/5T	$387	$478	HT000X02NPW01	1.44	1.15	78.5	26.2	13.189	.875
	1800	143/5T	$351	$442	HT000X04NPW01	1.47	1.18	85.5	37.9	13.583	.875
	1200	143/5T	$428	$518	HT000X06NPW01	1.58	1.26	82.5	38.6	13.583	.875
1.5	3600	143/5T	$398	$489	HT001X02NPW01	1.87	1.50	84.0	34.2	13.189	.875
	1800	143/5T	$389	$480	HT001X04NPW01	2.02	1.62	86.5	37.9	13.583	.875
	1200	182/4T	$512	$625	HT001X06NPW01	2.22	1.78	87.5	65.9	16.339	1.125
2	3600	143/5T	$417	$507	HT002X02NPW01	2.47	1.98	85.5	40.1	13.976	.875
	1800	143/5T	$403	$494	HT002X04NPW01	2.72	2.18	86.5	42.3	13.976	.875
	1200	182/4T	$602	$715	HT002X06NPW01	3.00	2.40	88.5	76.1	17.126	1.125
3	3600	143/5T	$453	$543	HT003X02NPW01145T	3.51	2.81	86.5	48.1	15.157	.875
	3600	182/4T	$512	$625	HT003X02NPW01	3.67	2.94	86.5	63.5	16.339	1.125
	1800	182/4T	$512	$625	HT003X04NPW01	3.81	3.05	89.5	80.3	17.913	1.125
	1200	213/5T	$808	$944	HT003X06NPW01	4.17	3.34	89.5	130	19.291	1.375
5	3600	182/4T	$598	$711	HT005X02NPW01	5.90	4.72	88.5	78.5	17.913	1.125
	1800	182/4T	$582	$695	HT005X04NPW01	6.49	5.19	89.5	71.4	17.913	1.125
	1200	213/5T	$967	$1,103	HT005X06NPW01	6.74	5.39	89.5	144	20.079	1.375
7.5	3600	182/4T	$677	$790	HT007X02NPW01184T	8.57	6.86	89.5	79.4	17.126	1.125
	3600	213/5T	$815	$951	HT007X02NPW01	8.67	6.94	89.5	133	20.079	1.375
	1800	213/5T	$770	$906	HT007X04NPW01	9.07	7.26	91.7	120	18.898	1.375
	1200	254/6T	$1,488	$1,691	HT007X06NPW01	10.0	7.98	91.0	204	22.559	1.625
10	3600	213/5T	$901	$1,037	HT010X02NPW01	11.5	9.20	90.2	161	21.654	1.375
	1800	213/5T	$937	$1,073	HT010X04NPW01	12.2	9.76	91.7	130	19.291	1.375
	1200	254/6T	$1,644	$1,848	HT010X06NPW01	13.8	11.0	91.0	234	23.346	1.625
15	3600	213/5T	$1,184	$1,320	HT015X02NPW01215T	17.0	13.6	91.0	154	21.654	1.375
	3600	254/6T	$1,365	$1,569	HT015X02NPW01	17.4	13.9	91.0	175	22.559	1.625
	1800	254/6T	$1,352	$1,555	HT015X04NPW01	18.2	14.6	92.4	197	22.559	1.625
20	3600	254/6T	$1,768	$1,972	HT020X02NPW01	22.7	18.2	91.0	211	23.346	1.625
	1800	254/6T	$1,608	$1,811	HT020X04NPW01	24.7	19.8	93.0	227	23.346	1.625
25	3600	254/6T	$2,160	$2,364	HT025X02NPW01	28.5	22.8	91.7	221	23.346	1.625

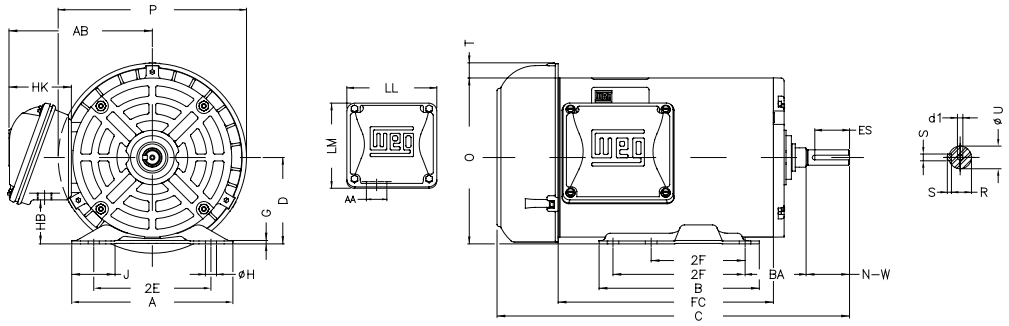
Flange: Replace 'H' with 'C' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
1	0.75	3510	143/5T	2.88	1.44	1.15	7.8	200%	300%	22	26.2	1.15	72.0	77.0	78.5	0.65	0.76	0.83
		1765	143/5T	2.94	1.47	1.18	8.6	280%	300%	19	37.9	1.15	82.5	84.0	85.5	0.52	0.66	0.75
		1145	143/5T	3.16	1.58	1.26	5.8	230%	280%	31	38.6	1.15	80.0	82.5	82.5	0.50	0.63	0.72
1.5	1.1	3520	143/5T	3.74	1.87	1.50	9.1	230%	300%	17	34.2	1.15	80.0	82.5	84.0	0.71	0.82	0.88
		1750	143/5T	4.04	2.02	1.62	8.2	270%	300%	21	37.9	1.15	85.5	86.5	86.5	0.59	0.72	0.79
		1170	182/4T	4.44	2.22	1.78	6.9	240%	340%	55	65.9	1.15	84.0	86.5	87.5	0.50	0.63	0.71
2	1.5	3520	143/5T	4.94	2.47	1.98	9.9	250%	300%	13	40.1	1.15	82.5	85.5	85.5	0.73	0.83	0.89
		1745	143/5T	5.44	2.72	2.18	8.2	270%	300%	15	42.3	1.15	85.5	87.5	86.5	0.60	0.73	0.80
		1170	182/4T	6.00	3.00	2.40	7.5	260%	370%	44	76.1	1.15	84.0	86.5	88.5	0.50	0.62	0.71
3	2.2	3500	143/5T	7.02	3.51	2.81	9.5	300%	380%	10	48.1	1.15	84.0	86.5	86.5	0.78	0.87	0.91
		3515	182/4T	7.34	3.67	2.94	8.8	220%	300%	22	63.5	1.15	84.0	86.5	86.5	0.71	0.82	0.87
		1765	182/4T	7.62	3.81	3.05	8.8	220%	300%	18	80.3	1.15	87.5	88.5	89.5	0.61	0.74	0.81
		1175	213/5T	8.34	4.17	3.34	6.4	230%	290%	46	130	1.15	85.5	88.5	89.5	0.55	0.67	0.74
5	3.7	3500	182/4T	11.8	5.90	4.72	7.8	220%	300%	17	78.5	1.15	87.5	88.5	88.5	0.76	0.85	0.89
		1750	182/4T	13.0	6.49	5.19	7.0	220%	300%	16	71.4	1.15	88.5	89.5	89.5	0.60	0.73	0.80
		1175	213/5T	13.5	6.74	5.39	6.0	220%	250%	30	144	1.15	87.5	88.5	89.5	0.59	0.71	0.77
7.5	5.5	3480	182/4T	17.1	8.57	6.86	8.0	270%	360%	19	79.4	1.15	88.5	89.5	89.5	0.77	0.86	0.90
		3530	213/5T	17.3	8.67	6.94	7.6	260%	300%	15	133	1.15	87.5	88.5	89.5	0.76	0.85	0.89
		1770	213/5T	18.1	9.07	7.26	7.3	260%	300%	22	120	1.15	90.2	91.0	91.7	0.64	0.76	0.82
		1175	254/6T	20.0	9.98	7.98	5.4	200%	230%	42	204	1.15	89.5	89.5	91.0	0.58	0.70	0.76
10	7.5	3530	213/5T	23.0	11.5	9.20	7.5	260%	300%	12	161	1.15	89.5	90.2	90.2	0.80	0.88	0.91
		1760	213/5T	24.4	12.2	9.76	7.0	250%	300%	15	130	1.15	91.0	91.0	91.7	0.67	0.78	0.84
		1175	254/6T	27.6	13.8	11.0	5.4	210%	230%	30	234	1.15	90.2	91.0	91.0	0.57	0.69	0.75
15	11	3525	254/6T	34.8	17.4	13.9	7.0	200%	300%	14	175	1.15	89.5	91.0	91.0	0.73	0.83	0.87
		3520	213/5T	34.0	17.0	13.6	8.2	280%	330%	11	154	1.15	90.2	91.0	91.0	0.76	0.85	0.89
		1770	254/6T	36.4	18.2	14.6	6.6	250%	300%	19	197	1.15	91.0	92.4	92.4	0.64	0.76	0.82
20	15	3515	254/6T	45.4	22.7	18.2	6.6	200%	290%	12	211	1.15	90.0	91.0	91.0	0.81	0.88	0.91
		1765	254/6T	49.4	24.7	19.8	6.7	270%	300%	16	227	1.15	91.7	92.4	93.0	0.66	0.77	0.82
25	18.5	3530	254/6T	57.0	28.5	22.8	8.3	240%	340%	8	221	1.15	91.0	91.7	91.7	0.77	0.85	0.89

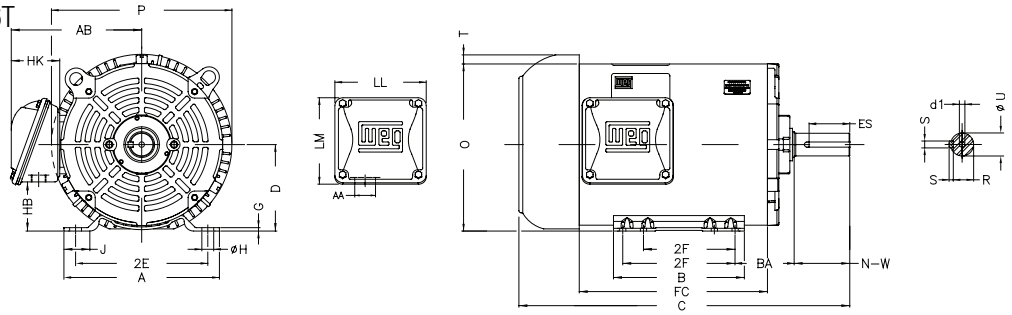
W01 Rolled Steel NEMA Premium Eff. Motors

TEFC - Mechanical Data

Frame 143/5T



Frames 182/4T up to 254/6T



NEMA FRAME	MOUNTING					AB	D	HB	HK	Hole H	J	LL	LM	O	P	T	SHAFT END						BEARINGS	
	2E	2F	A	B	BA												d1	ES	N-W	R	S	U	D.E.	N.D.E.
143/5T	5.500	4.000/5.000	6.535	6.496	2.250	5.873	3.500	1.784	2.629	0.343	1.722	4.563	4.090	6.723	7.638	0.604	A 3.15	1.417	2.250	0.766	0.187	0.875	6205 ZZ	6203 ZZ
182/4T	7.500	4.500/5.500	8.661	6.299	2.750	6.696	4.500	2.784		0.406	1.299			8.557	9.435	0.661	A 4	1.969	2.750	0.984	0.250	1.125	6206 ZZ	6205 ZZ
213/5T	8.500	5.500/7.000	9.449	7.953	3.500	7.973	5.250	2.982	3.022		1.575	5.551	5.250	10.144	11.306	0.761		2.480	3.380	1.203	0.313	1.375	6208 ZZ	6206 ZZ
254/6T	10.000	8.252/10.000	11.417	11.417	4.250	9.448	6.250	3.631	3.645	0.530	1.693	6.299	6.017	12.010	13.180	0.830		2.756	4.000	1.406	0.375	1.625	6309 Z-C3	6208 Z-C3

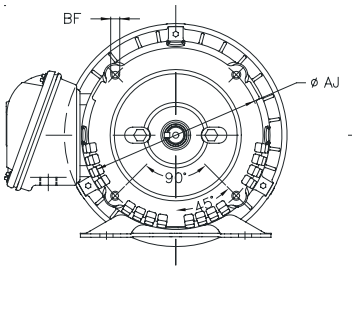
NEMA FRAME	OUTPUT		POLES	C	FC
	HP	kW			
143/5T	1	0.75	2	13.189	7.480
			4	13.583	7.874
			6		
	1.5	1.1	2	13.189	7.480
182/4T			4	13.583	7.874
			6	16.339	8.661
143/5T	2	1.5	2	13.976	8.268
			4		
182/4T			6	17.126	9.449
143/5T	3	2.2	2	16.339	8.661
182/4T			4	17.913	10.236
213/5T			6	19.291	10.630
182/4T	5	3.7	2	17.913	10.236
			4		
213/5T			6	20.079	11.417
213/5T	7.5	5.5	2		
213/5T			4	18.898	10.236
254/6T			6	22.559	12.992
213/5T	10	7.5	2	21.654	12.992
			4	19.291	10.630
254/6T			6	23.346	13.780
213/5T	15	11	2	22.559	12.992
254/6T			4		
	20	15	2	23.346	13.780
			4		
	25	18.5	2		

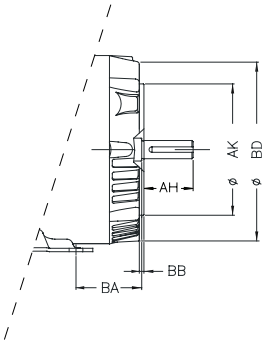
W01 Rolled Steel NEMA Premium Eff. Motors

TEFC - Mechanical Data

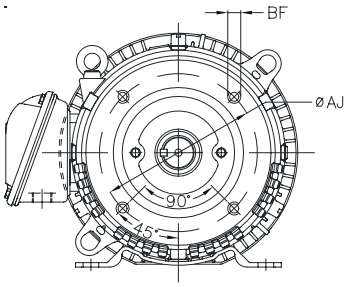
"C" Flange Dimensions							
Frame	BA	Flange					
		AJ	AK	BB	BD	BF	AH
143/5TC	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16	2.129
182/4TC	3.500	7.250	8.500	0.250	8.858	UNC 1/2"x13	2.620
213/5TC	4.309				9.401		3.129
254/6TC	4.750				11.084		3.750

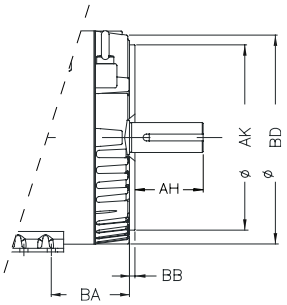
Frame 143/5T





Frames 182/4T up to 254/6T





W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing:
  - V’Ring sealing up to frame 324/6T.
  - WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 364/5T up to 504/5T
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T, all 2 pole motors
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5T and up.
- Insulated NDE endbells from frame L447/9T and up
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 588/9T
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T and up
- All frames have dual mounting

For Frame 586/7T and 588/9T

- Space heaters (220V)
- Taconite Labyrinth seal

NEMA Premium

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 586/7T ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
447/9T - 588/9T > 250 HP	All	6:1		Any
	All	12:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Space heaters (standard on 586/7T and 588/9T frames)
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated bearings
- Insulated NDE endbells (standard for frame L447/9T and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- UL Listed fire pump duty
- No feet

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
1	3600	143/5T	$455	$546	$551	HT000X02NPW22	1.43	1.14	78.5	36.4	12.346	0.875
	1800	143/5T	$410	$500	$505	HT000X04NPW22	1.39	1.11	85.5	40.8	12.346	0.875
	1200	143/5T	$505	$595	$601	HT000X06NPW22	1.73	1.38	82.5	52.9	13.346	0.875
	900	182/4T	$942	$1,055	$1,066	HT000X08NPW22	2.30	1.84	78.5	94.8	14.86	1.125
1.5	3600	143/5T	$469	$559	$565	HT001X02NPW22	1.90	1.52	84.0	40.8	12.346	0.875
	1800	143/5T	$457	$548	$553	HT001X04NPW22	1.97	1.58	86.5	48.5	13.346	0.875
	1200	182/4T	$602	$715	$723	HT001X06NPW22	2.39	1.91	87.5	70.3	14.86	1.125
	900	182/4T	$1,107	$1,220	$1,233	HT001X08NPW22	2.70	2.16	82.5	111	15.86	1.125
2	3600	143/5T	$491	$582	$588	HT002X02NPW22	2.53	2.02	85.5	51.8	13.346	0.875
	1800	143/5T	$475	$566	$572	HT002X04NPW22	2.61	2.09	86.5	50.7	13.346	0.875
	1200	182/4T	$709	$822	$830	HT002X06NPW22	3.23	2.58	88.5	87.5	15.86	1.125
	900	213/5T	$1,390	$1,526	$1,541	HT002X08NPW22	3.39	2.71	85.5	149	18.021	1.375
3	3600	143/5T	$530	$620	$627	HT003X02NPW22145T	3.71	2.97	86.5	52.0	13.358	0.875
	3600	182/4T	$602	$715	$723	HT003X02NPW22	3.62	2.90	86.5	88.2	14.86	1.125
	1800	182/4T	$602	$715	$723	HT003X04NPW22	3.88	3.10	89.5	90.4	14.86	1.125
	1200	213/5T	$951	$1,087	$1,098	HT003X06NPW22	4.41	3.53	89.5	121	18.021	1.375
	900	213/5T	$1,642	$1,777	$1,795	HT003X08NPW22	4.56	3.65	85.5	176	19.517	1.375
5	3600	182/4T	$704	$817	$826	HT005X02NPW22	5.90	4.72	88.5	88.2	15.86	1.125
	1800	182/4T	$684	$797	$805	HT005X04NPW22	6.45	5.16	89.5	94.8	15.86	1.125
	1200	213/5T	$1,137	$1,272	$1,285	HT005X06NPW22	6.83	5.46	89.5	162	19.517	1.375
	900	254/6T	$2,735	$2,939	$2,968	HT005X08NPW22	7.58	6.06	87.5	258	23.213	1.625
7.5	3600	182/4T	$783	$897	$906	HT007X02NPW22184T	8.76	7.01	89.5	93	15.86	1.125
	3600	213/5T	$922	$1,057	$1,068	HT007X02NPW22	8.78	7.02	89.5	139	18.021	1.375
	1800	213/5T	$906	$1,042	$1,052	HT007X04NPW22	9.00	7.20	91.7	154	18.021	1.375
	1200	254/6T	$1,750	$1,954	$1,974	HT007X06NPW22	9.48	7.58	91.0	276	23.213	1.625
	900	254/6T	$2,751	$2,955	$2,984	HT007X08NPW22	11.1	8.88	87.5	284	24.945	1.625
10	3600	213/5T	$1,062	$1,198	$1,210	HT010X02NPW22	11.6	9.28	90.2	163	19.517	1.375
	1800	213/5T	$1,069	$1,205	$1,217	HT010X04NPW22	12.4	9.92	91.7	172	19.517	1.375
	1200	254/6T	$1,936	$2,140	$2,161	HT010X06NPW22	12.9	10.3	91.0	290	24.945	1.625
	900	284/6T	$3,480	$3,752	$3,789	HT010X08NPW22	13.4	10.7	90.2	373	26.433	1.875
15	3600	213/5T	$1,368	$1,503	$1,518	HT015X02NPW22215T	17.0	13.6	91	163	19.517	1.375
	3600	254/6T	$1,608	$1,811	$1,829	HT015X02NPW22	17.0	13.6	91.0	258	23.213	1.625
	1800	254/6T	$1,540	$1,743	$1,761	HT015X04NPW22	18.0	14.4	92.4	265	23.213	1.625
	1200	284/6T	$2,638	$2,909	$2,939	HT015X06NPW22	17.9	14.3	91.7	379	26.433	1.875
	900	284/6T	$4,005	$4,277	$4,320	HT015X08NPW22	19.4	15.5	90.2	417	27.929	1.875
20	3600	254/6T	$2,081	$2,285	$2,307	HT020X02NPW22	23.2	18.6	91.0	282	24.945	1.625
	1800	254/6T	$1,891	$2,094	$2,115	HT020X04NPW22	24.1	19.3	93.0	298	24.945	1.625
	1200	284/6T	$3,211	$3,482	$3,517	HT020X06NPW22	24.2	19.4	91.7	426	27.929	1.875
	900	324/6T	$4,648	$4,988	$5,038	HT020X08NPW22	28.3	22.6	91.0	452	29.62	2.125
25	3600	284/6TS	$2,728	$3,000	$3,030	HT025X02NPW22	28.5	22.8	91.7	362	25.061	1.625
	1800	284/6T	$2,380	$2,651	$2,678	HT025X04NPW22	29.5	23.6	93.6	388	26.433	1.875
	1200	324/6T	$4,182	$4,522	$4,567	HT025X06NPW22	30.4	24.3	93.0	560	29.62	2.125
	900	324/6T	$5,221	$5,561	$5,616	HT025X08NPW22	35.9	28.7	91.0	509	31.116	2.125
30	3600	284/6TS	$3,036	$3,308	$3,341	HT030X02NPW22	33.8	27.0	91.7	392	26.557	1.625
	1800	284/6T	$2,692	$2,964	$2,993	HT030X04NPW22	35.1	28.1	93.6	437	27.929	1.875
	1200	324/6T	$4,666	$5,006	$5,056	HT030X06NPW22	35.8	28.6	93.0	553	31.116	2.125
	900	364/5T	$8,527	$9,206	$9,298	HT030X08NPW22	37.0	29.6	92.4	803	34.251	2.375
40	3600	324/6TS	$4,048	$4,388	$4,432	HT040X02NPW22	45.8	36.6	92.4	547	28.12	1.875
	1800	324/6T	$3,824	$4,164	$4,205	HT040X04NPW22	48.2	38.6	94.1	492	29.62	2.125
	1200	364/5T	$6,598	$7,277	$7,350	HT040X06NPW22	46.5	37.2	94.1	833	34.251	2.375
	900	364/5T	$9,679	$10,358	$10,462	HT040X08NPW22	50.0	40.0	92.4	875	34.251	2.375
50	3600	324/6TS	$4,949	$5,289	$5,342	HT050X02NPW22	56.1	44.9	93.0	584	29.616	1.875
	1800	324/6T	$4,336	$4,675	$4,722	HT050X04NPW22	59.2	47.4	94.5	536	31.116	2.125
	1200	364/5T	$7,608	$8,287	$8,370	HT050X06NPW22	57.4	45.9	94.1	869	34.251	2.375
	900	404/5T	$11,817	$12,496	$12,621	HT050X08NPBBW22	60.0	48.0	93.0	1012	39.73	2.875
60	3600	364/5TS	$6,616	$7,295	$7,368	HT060X02NPW22	67.0	53.6	93.6	825	32.276	1.875
	1800	364/5T	$6,709	$7,388	$7,462	HT060X04NPW22	68.3	54.6	95.0	869	34.251	2.375
	1200	404/5T	$9,084	$9,763	$9,861	HT060X06NPBBW22	69.5	55.6	94.5	1036	39.73	2.875
	900	404/5T	$12,847	$13,526	$13,661	HT060X08NPBBW22	73.0	58.4	93.0	1111	39.73	2.875
75	3600	364/5TS	$8,500	$9,179	$9,271	HT075X02NPW22	81.9	65.5	93.6	847	32.276	1.875
	1800	364/5T	$8,011	$8,690	$8,777	HT075X04NPW22	84.1	67.3	95.4	919	34.251	2.375
	1200	404/5T	$9,858	$10,537	$10,643	HT075X06NPBBW22	84.9	67.9	94.5	1089	39.73	2.875
	900	444/5T	$16,827	$17,959	$18,139	HT075X08NPBBW22	93.0	74.4	93.6	1444	45.193	3.375
100	3600	404/5TS	$10,884	$11,563	$11,679	HT100X02NPW22	110	88.0	94.1	1045	36.732	2.125
	1800	404/5T	$9,924	$10,603	$10,709	HT100X04NPBBW22	111	88.8	95.4	1140	39.73	2.875
	1200	444/5T	$14,115	$15,247	$15,399	HT100X06NPBBW22	121	96.8	95.0	1577	45.193	3.375
	900	444/5T	$19,775	$20,907	$21,116	HT100X08NPBBW22	127	102	94,1	1599	45193	3.375
125	3600	444/5TS	$14,774	$15,906	$16,065	HT125X02NPW22	134	107	95.0	1599	41.443	2.375
	1800	444/5T	$13,238	$14,371	$14,514	HT125X04NPBBW22	139	111	95.4	1590	45.193	3.375
	1200	444/5T	$16,232	$17,364	$17,537	HT125X06NPBBW22	143	114	95.0	1751	45.193	3.375
	900	504/5T	$25,370	$26,502	$26,767	HT125X08NPBBW22505T	149	119	94.5	2110	54.095	3.625
	900	445/7T	$25,370	$26,502	$26,767	HT125X08NPBBW22447T	151	121	94.5	1887	49.051	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Bearings: Replace 'BB' with 'RB' for Rollers Bearings on frame 404/5T and up

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
150	3600	444/5TS	$18,222	$19,354	$19,548	HT150X02NPBBW22	161	129	95.0	1709	41.443	2.375
	1800	444/5T	$15,335	$16,467	$16,632	HT150X04NPBBW22	170	136	95.8	1676	45.193	3.375
	1200	504/5T	$18,935	$20,067	$20,268	HT150X06NPBBW22	176	141	95.8	2249	54.095	3.625
	1200	445/7T	$18,935	$20,067	$20,268	HT150X06NPBBW22447T	176	141	95.8	2042	49.051	3.375
	900	504/5T	$30,725	$31,857	$32,175	HT150X08NPBBW22	180	144	94.5	2293	54.095	3.625
	900	445/7T	$30,725	$31,857	$32,175	HT150X08NPBBW22447T	185	148	94.5	2042	49.051	3.375
200	3600	504/5TS	$23,192	$24,324	$24,567	HT200X02NPBBW22505TS	222	178	95.4	2168	48.125	2.375
	3600	445/7TS	$23,192	$24,324	$24,567	HT200X02NPBBW22447TS	219	175	95.4	1914	45.301	2.375
	1800	444/5T	$18,831	$19,963	$20,163	HT200X04NPBBW22445T	230	184	96.2	2095	45.157	3.375
	1800	504/5T	$19,854	$20,986	$21,196	HT200X04NPBBW22504T	228	182	96.2	2273	54.095	3.625
	1800	445/7T	$18,831	$19,963	$20,163	HT200X04NPBBW22447T	230	184	96.2	1899	49.051	3.375
	1200	504/5T	$24,129	$25,261	$25,514	HT200X06NPBBW22505T	237	190	95.8	2459	54.095	3.625
	1200	445/7T	$24,129	$25,261	$25,514	HT200X06NPBBW22447T	237	190	95.8	2247	49.051	3.375
	900	447/9T	$36,106	$37,805	$38,183	HT200X08NPBBW22449T	254	203	95.0	2509	56.338	3.375
	900	586/7T	$43,990	$46,934	$47,403	HT200X08NPBBW22587T	247	198	95.4	3334	61.704	3.875
250	3600	504/5TS	$26,540	$27,672	$27,949	HT250X02NPBBW22505TS	269	215	95.8	2388	48.215	2.375
	3600	445/7TS	$26,223	$27,355	$27,629	HT250X02NPBBW22447TS	266	213	95.8	2159	45.301	2.375
	3600	447/9TS	$29,846	$31,544	$31,860	HT250X02NPBBW22449TS	266	213	95.8	2159	52.588	2.375
	1800	504/5T	$24,525	$25,657	$25,914	HT250X04NPBBW22505T	277	222	96.2	2450	54.095	3.625
	1800	445/7T	$24,525	$25,567	$25,914	HT250X04NPBBW22447T	281	225	96.2	2079	49.051	3.375
	1800	447/9T	$27,469	$29,385	$29,458	HT250X04NPBBW22449T	281	225	96.2	2079	56.338	3.375
	1200	447/9T	$31,243	$33,159	$33,271	HT250X06NPBBW22449T	292	234	95.8	2538	56.338	3.375
	1200	586/7T	$38,789	$41,733	$42,150	HT250X06NPBBW22587T	299	239	95.8	3206	61.704	3.875
	900	L447/9T	$42,503	$44,201	$44,643	HT250X08NPBBW22L449T	308	246	95.4	3550	57.181	3.375
	900	586/7T	$48,847	$51,790	$52,308	HT250X08NPBBW22587T	299	239	95.8	3649	61.704	3.875
300	3600	447/9TS	$36,188	$37,886	$38,265	HT300X02NPBBW22449TS	320	256	95.8	2545	52.588	2.375
	3600	586/7TS	$41,520	$44,463	$44,908	HT300X02NPBBW22587TS	317	254	95.8	3382	54.829	2.375
	1800	447/9T	$30,079	$31,777	$32,095	HT300X04NPBBW22449T	330	264	96.2	2381	56.338	3.375
	1800	586/7T	$35,386	$38,330	$38,713	HT300X04NPBBW22587T	334	267	96.2	3080	61.704	3.875
	1200	447/9T	$33,908	$35,606	$35,962	HT300X06NPBBW22449T	347	278	95.8	2613	56.338	3.375
	1200	586/7T	$44,445	$47,389	$47,863	HT300X06NPBBW22587T	356	285	95.8	3495	61.704	3.875
	900	L447/9T	$48,048	$49,746	$50,243	HT300X08NPBBW22L449T	371	297	95.4	3704	57.181	3.375
	900	586/7T	$56,026	$58,970	$59,560	HT300X08NPBBW22587T	356	285	95.8	4035	61.704	3.875
350	3600	447/9TS	$39,457	$41,155	$41,567	HT350X02NPBBW22449TS	377	302	96.2	2701	52.588	2.375
	3600	586/7TS	$46,820	$49,764	$50,261	HT350X02NPBBW22587TS	373	298	96.2	3621	54.829	2.375
	1800	447/9T	$33,410	$35,108	$35,459	HT350X04NPBBW22449T	394	315	96.2	2675	56.338	3.375
	1800	586/7T	$41,203	$44,146	$44,588	HT350X04NPBBW22587T	394	315	96.2	2675	61.704	3.875
	1200	L447/9T	$43,397	$45,095	$45,546	HT350X06NPBBW22L449T	404	323	96.2	3574	57.181	3.375
	1200	586/7T	$48,421	$51,365	$51,878	HT350X06NPBBW22587T	421	337	95.8	3784	61.704	3.875
	900	586/7T	$56,629	$59,572	$60,168	HT350X08NPBBW22	426	341	95.8	4309	54.829	3.875
400	3600	L447/9TS	$45,693	$47,391	$47,865	HT400X02NPW22L449TS	432	346	95.8	3158	53.431	2.375
	3600	586/7TS	$50,425	$53,368	$53,902	HT400X02NPBBW22587TS	430	344	96.2	3749	54.829	2.375
	1800	L447/9T	$40,429	$42,127	$42,548	HT400X04NPBBW22L449T	455	364	96.2	3285	57.181	3.375
	1800	586/7T	$47,312	$50,255	$50,758	HT400X04NPBBW22587T	455	364	96.2	3455	61.704	3.875
	1200	L447/9T	$48,403	$50,101	$50,602	HT400X06NPBBW22L449T	477	382	96.2	3682	57.181	3.375
	1200	586/7T	$52,177	$55,121	$55,672	HT400X06NPBBW22587T	483	386	96.2	4115	61.704	3.875
	900	588/9T	$58,236	$61,180	$61,791	HT400X08NPBBW22	498	398	95.7	4851	69.381	3.875
450	3600	L447/9TS	$46,757	$48,455	$48,940	HT450X02NPW22L449TS	475	380	95.8	3268	53.431	2.375
	3600	586/7TS	$52,947	$55,891	$56,449	HT450X02NPBBW22587TS	473	378	96.2	3918	54.829	2.375
	1800	L447/9T	$43,055	$44,421	$45,201	HT450X04NPBBW22L449T	504	401	96.2	3396	57.181	3.375
	1800	586/7T	$49,463	$52,406	$52,930	HT450X04NPBBW22587T	501	401	96.2	3640	61.704	3.875
	1200	586/7T	$54,806	$57,749	$58,327	HT450X06NPBBW22	532	426	96.2	4384	61.704	3.875
	900	588/9T	$62,058	$65,002	$65,652	HT450X08NPBBW22	540	432	95.8	5281	69.381	3.875
500	3600	586/7TS	$55,594	$58,537	$59,123	HT500X02NPBBW22	530	424	96.2	4086	54.829	2.375
	1800	L447/9T	$45,374	$47,072	$47,542	HT500X04NPBBW22L449T	561	449	96.2	3462	57.181	3.375
	1800	586/7T	$52,134	$55,078	$55,629	HT500X04NPBBW22587T	555	444	96.2	3912	61.704	3.875
	1200	586/7T	$62,294	$65,237	$65,889	HT500X06NPBBW22	603	482	96.2	4403	61.704	3.875
	3600	588/9TS	$54,448	$57,392	$57,966	HT550X02NPBBW22	578	462	96.5	4410	62.506	2.375
	1800	586/7T	$52,656	$55,599	$56,155	HT550X04NPBBW22	605	484	96.5	4335	61.902	3.875
	1200	588/9T	$63,539	$66,483	$67,148	HT550X06NPBBW22	661	529	96.1	4734	69.381	3.875
550	3600	588/9TS	$54,448	$57,392	$57,966	HT550X02NPBBW22	578	462	96.5	4410	62.506	2.375
	1800	586/7T	$52,656	$55,599	$56,155	HT550X04NPBBW22	605	484	96.5	4335	61.902	3.875
	1200	588/9T	$63,539	$66,483	$67,148	HT550X06NPBBW22	661	529	96.1	4734	69.381	3.875
600	3600	588/9TS	$55,662	$58,605	$59,191	HT600X02NPBBW22	650	520	96.5	4410	62.506	2.375
	1800	586/7T	$55,506	$58,449	$59,034	HT600X04NPBBW22	665	532	96.5	4335	61.704	3.875
	1200	588/9T	$66,346	$69,290	$69,983	HT600X06NPBBW22	743	594	96.2	5173	69.381	3.875
650	3600	588/9TS	$58,979	$61,922	$62,541	HT650X02NPBBW22	685	548	96.6	4635	62.506	2.375
	1800	588/9T	$58,771	$61,714	$62,331	HT650X04NPBBW22	734	587	96.6	4395	69.381	3.875
700	3600	588/9TS	$61,592	$64,535	$65,180	HT700X02NPBBW22	736	589	96.6	4805	62.506	2.375
	1800	588/9T	$60,516	$63,460	$64,094	HT700X04NPBBW22	788	630	96.6	4584	69.381	3.875
750	1800	588/9T	$62,672	$65,615	$66,271	HT750X04NPBBW22	840	672	96.7	4952	69.381	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Bearings: Replace 'BB' with 'RB' for Rollers Bearings on frame 404/5T and up

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3495	143/5T	2.86	1.43	1.14	8.2	280%	340%	22	36.4	68	1.25	74.0	77.0	78.5	0.69	0.79	0.84
		1760	143/5T	2.78	1.39	1.11	8.4	230%	350%	18	40.8	51	1.25	80.0	84.0	85.5	0.60	0.72	0.79
		1150	143/5T	3.46	1.73	1.38	6.2	300%	300%	28	52.9	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
		875	182/4T	4.60	2.30	1.84	6.0	300%	350%	22	94.8	50	1.25	74.0	77.0	78.5	0.32	0.42	0.52
1.5	1.1	3490	143/5T	3.80	1.90	1.52	8.9	350%	380%	21	40.8	68	1.25	81.5	84.0	84.0	0.72	0.82	0.86
		1755	143/5T	3.94	1.97	1.58	8.3	240%	340%	14	48.5	51	1.25	82.5	85.5	86.5	0.62	0.74	0.81
		1165	182/4T	4.78	2.39	1.91	8.0	320%	400%	16	70.3	52	1.25	84.0	86.5	87.5	0.45	0.56	0.66
		860	182/4T	5.40	2.70	2.16	5.5	250%	260%	17	111	50	1.25	80.0	82.5	82.5	0.43	0.54	0.62
2	1.5	3480	143/5T	5.06	2.53	2.02	8.7	350%	380%	17	51.8	68	1.25	82.5	85.5	85.5	0.73	0.82	0.87
		1750	143/5T	5.22	2.61	2.09	7.5	210%	300%	11	50.7	51	1.25	84.0	86.5	86.5	0.66	0.78	0.84
		1165	182/4T	6.46	3.23	2.58	7.5	300%	300%	31	87.5	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
		870	213/5T	6.78	3.39	2.71	7.6	240%	290%	39	149	52	1.25	82.5	84.0	85.5	0.45	0.55	0.65
3	2.2	3510	182/4T	7.24	3.62	2.90	8.3	240%	380%	41	88.2	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182/4T	7.76	3.88	3.10	8.1	230%	340%	23	90.4	56	1.25	86.5	88.5	89.5	0.61	0.73	0.79
		1170	213/5T	8.82	4.41	3.53	7.0	200%	280%	58	121	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
		865	213/5T	9.12	4.56	3.65	6.8	230%	280%	44	176	52	1.25	84.0	85.5	85.5	0.50	0.63	0.71
5	3.7	3500	182/4T	11.8	5.90	4.72	8.7	270%	390%	25	88.2	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1755	182/4T	12.9	6.45	5.16	7.5	230%	320%	15	94.8	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1160	213/5T	13.7	6.83	5.46	6.6	190%	240%	57	162	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
		880	254/6T	15.2	7.58	6.06	5.3	190%	250%	44	258	54	1.25	85.5	87.5	87.5	0.49	0.62	0.70
7.5	5.5	3520	213/5T	17.6	8.78	7.02	7.2	210%	300%	27	139	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1765	213/5T	18.0	9.00	7.20	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.67	0.78	0.84
		1175	254/6T	19.0	9.48	7.58	6.6	230%	280%	34	276	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
		880	254/6T	22.2	11.1	8.88	5.3	200%	250%	33	284	54	1.25	85.5	87.5	87.5	0.50	0.63	0.71
10	7.5	3515	213/5T	23.2	11.6	9.28	7.2	220%	290%	24	163	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1760	213/5T	24.8	12.4	9.92	6.4	200%	300%	17	172	58	1.25	90.2	91.7	91.7	0.66	0.77	0.83
		1175	254/6T	25.8	12.9	10.3	6.5	230%	280%	27	290	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
		880	284/6T	26.8	13.4	10.7	5.6	200%	240%	32	373	54	1.25	89.5	90.2	90.2	0.61	0.72	0.78
15	11	3530	254/6T	34.0	17.0	13.6	6.4	220%	260%	25	258	72	1.25	89.5	91.0	91.0	0.79	0.86	0.89
		1765	254/6T	36.0	18.0	14.4	6.3	230%	270%	20	265	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284/6T	35.8	17.9	14.3	6.5	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
		880	284/6T	38.8	19.4	15.5	5.5	200%	230%	25	417	54	1.25	90.2	91.0	90.2	0.62	0.73	0.79
20	15	3520	254/6T	46.4	23.2	18.6	6.4	210%	240%	21	282	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1765	254/6T	48.2	24.1	19.3	6.3	230%	270%	17	298	64	1.25	91.7	92.4	93.0	0.69	0.79	0.84
		1175	284/6T	48.4	24.2	19.4	6.4	230%	260%	16	426	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
		880	324/6T	56.6	28.3	22.6	5.0	190%	220%	27	452	56	1.25	89.5	91.0	91.0	0.54	0.66	0.73
25	18.5	3535	284/6TS	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	59.0	29.5	23.6	6.4	240%	270%	24	388	64	1.25	92.4	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	60.8	30.4	24.3	6.2	210%	260%	26	560	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
		880	324/6T	71.8	35.9	28.7	5.2	200%	230%	23	509	56	1.25	89.5	91.0	91.0	0.51	0.64	0.71
30	22	3535	284/6TS	67.6	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	70.2	35.1	28.1	6.4	240%	270%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	71.6	35.8	28.6	6.2	230%	260%	21	553	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
		880	364/5T	74.0	37.0	29.6	6.2	170%	240%	20	803	60	1.25	92.4	92.4	92.4	0.63	0.74	0.80
40	30	3555	324/6TS	91.6	45.8	36.6	6.4	230%	240%	22	547	74	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1775	324/6T	96.4	48.2	38.6	6.4	220%	260%	20	492	66	1.25	93.0	94.1	94.1	0.67	0.78	0.83
		1180	364/5T	93.0	46.5	37.2	6.4	200%	240%	21	833	64	1.25	93.6	93.6	94.1	0.73	0.82	0.86
		880	364/5T	100	50.0	40.0	6.0	170%	230%	18	875	60	1.25	92.4	93.0	92.4	0.66	0.76	0.81
50	37	3550	324/6TS	112	56.1	44.9	6.2	220%	230%	23	584	74	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1775	324/6T	118	59.2	47.4	6.5	230%	270%	15	536	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5T	115	57.4	45.9	6.4	200%	240%	18	869	64	1.25	93.6	94.1	94.1	0.74	0.83	0.86
		880	404/5T	120	60.0	48.0	6.5	170%	260%	15	1012	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
60	45	3560	364/5TS	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1775	364/5T	137	68.3	54.6	6.6	240%	260%	15	869	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
		1180	404/5T	139	69.5	55.6	6.4	200%	230%	20	1036	64	1.25	94.1	94.5	94.5	0.74	0.82	0.86
		880	404/5T	146	73.0	58.4	6.5	180%	270%	13	1111	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
75	55	3555	364/5TS	164	81.9	65.5	6.6	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1775	364/5T	168	84.1	67.3	6.6	240%	260%	14	919	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86
		1180	404/5T	170	84.9	67.9	6.4	200%	230%	17	1089	64	1.25	94.1	94.5	94.5	0.74	0.83	0.86
		890	444/5T	186	93.0	74.4	6.0	180%	210%	18	1444	63	1.25	93.0	93.6	93.6	0.64	0.74	0.79
100	75	3555	404/5TS	220	110	88.0	6.5	200%	240%	14	1045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		1775	404/5T	222	111	88.8	6.6	240%	260%	13	1140	68	1.25	95.0	95.0	95.4	0.78	0.86	0.89
		1185	444/5T	242	121	96.8	6.4	220%	260%	20	1577	69	1.25	94.5	95.0	95.0	0.68	0.78	0.82
		890	444/5T	254	127	102	6.0	190%	220%	15	1599	63	1.25	93.6	94.1	94.1	0.63	0.74	0.79
125	90	3570	444/5TS	268	134	107	6.5	200%	250%	29	1599	81.0	1.15	93.6	94.5	95.0	0.82	0.87	0.89
		1780	444/5T	278	139	111	6.5	200%	250%	27	1590	73.0	1.15	95.0	95.4	95.4	0.74	0.82	0.85
		1185	444/5T	286	143	114	6.4	210%	240%	19	1751	69.0	1.15	95.0	95.4	95.0	0.70	0.79	0.83
		890	504/5T	298	149	119	5.8	180%	200%	23	2110	66.0	1.15	94.5	94.5	94.5	0.66	0.76	0.80
		890	445/7T	302	151	121	6.0	180%	210%	17	1887	63.0	1.15	94.5	94.5	94.5	0.64	0.74	0.79

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Electrical Data

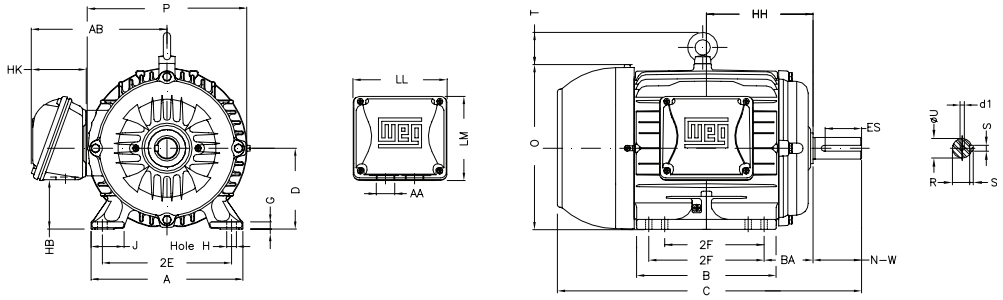
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
150	110	3570	444/5TS	322	161	129	6.5	180%	240%	22	1709	81.0	1.15	94.1	95.0	95.0	0.83	0.88	0.90
		1780	444/5T	340	170	136	6.6	200%	250%	27	1676	73.0	1.15	95.4	95.8	95.8	0.74	0.82	0.85
		1190	504/5T	352	176	141	6.7	230%	250%	29	2249	70.0	1.15	94.5	95.4	95.8	0.67	0.78	0.82
		1190	445/7T	352	176	141	6.7	240%	290%	20	2042	69.0	1.15	95.0	95.4	95.8	0.67	0.78	0.82
		890	504/5T	360	180	144	5.8	180%	200%	21	2293	66.0	1.15	94.5	94.5	94.5	0.68	0.77	0.81
		890	445/7T	370	185	148	6.0	190%	210%	15	2042	63.0	1.15	94.5	94.5	94.5	0.64	0.74	0.79
200	150	3575	504/5TS	444	222	178	7.2	200%	270%	17	2168	81.0	1.15	94.1	95.0	95.4	0.81	0.87	0.89
		3570	445/7TS	438	219	175	7.2	240%	240%	14	1914	81.0	1.15	95.0	95.4	95.4	0.86	0.89	0.90
		1785	504/5T	456	228	182	6.6	220%	220%	22	2273	---	1.15	95.4	96.2	96.2	0.75	0.83	0.86
		1780	445/7T	460	230	184	6.8	240%	250%	16	1899	---	1.15	95.4	96.2	96.2	0.73	0.82	0.85
		1190	504/5T	474	237	190	6.6	220%	230%	21	2459	70.0	1.15	95.0	95.4	95.8	0.70	0.80	0.83
		1190	445/7T	474	237	190	6.6	230%	240%	15	2247	69.0	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		890	447/9T	508	254	203	6.2	200%	220%	13	2509	---	1.15	94.5	95.0	95.0	0.62	0.73	0.78
		895	586/7T	494	247	198	6.3	140%	210%	40	3334	75.0	1.15	95.0	95.4	95.4	0.65	0.75	0.80
250	185	3575	504/5TS	538	269	215	7.0	200%	240%	23	2388	81.0	1.15	95.0	95.8	95.8	0.85	0.89	0.90
		3570	445/7TS	532	266	213	6.5	230%	220%	18	2159	81.0	1.15	95.4	95.8	95.8	0.87	0.90	0.91
		1785	504/5T	554	277	222	6.6	230%	220%	20	2450	75.0	1.15	95.8	96.2	96.2	0.78	0.85	0.87
		1780	445/7T	562	281	225	6.6	230%	240%	15	2079	73.0	1.15	95.8	96.2	96.2	0.75	0.83	0.86
		1185	447/9T	584	292	234	6.7	240%	240%	12	2538	---	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		1190	586/7T	598	299	239	6.2	200%	210%	30	3206	77.0	1.15	95.0	95.4	95.8	0.68	0.77	0.81
		895	586/7T	598	299	239	6.2	140%	210%	40	3649	75.0	1.15	95.4	95.8	95.8	0.66	0.76	0.81
		890	L447/9T	616	308	246	6	200%	230%	24	3549	64	1.15	95.4	95.4	95.4	0.65	0.75	0.79
300	220	3570	447/9TS	640	320	256	7.0	250%	240%	14	2545	---	1.15	95.4	95.8	95.8	0.86	0.89	0.90
		3580	586/7TS	634	317	254	6.5	150%	220%	35	3382	84.0	1.15	95.0	95.8	95.8	0.87	0.90	0.91
		1780	447/9T	660	330	264	6.5	230%	230%	16	2381	---	1.15	95.8	96.2	96.2	0.77	0.84	0.87
		1790	586/7T	668	334	267	6.8	230%	230%	19	3080	78.0	1.15	95.4	96.2	96.2	0.77	0.84	0.86
		1185	447/9T	694	347	278	6.8	250%	250%	9	2613	---	1.15	95.4	95.8	95.8	0.68	0.78	0.83
		1190	586/7T	712	356	285	6.0	200%	200%	30	3495	77.0	1.15	95.4	95.8	95.8	0.69	0.78	0.81
		895	586/7T	712	356	285	6.5	150%	220%	40	4035	75.0	1.15	95.4	95.8	95.8	0.66	0.77	0.81
		890	L447/9T	742	371	297	6.3	220%	240%	16	3704	64	1	95.4	95.4	95.4	0.62	0.73	0.78
350	260	3575	447/9TS	754	377	302	7.6	240%	250%	10	2701	---	1.15	95.4	96.2	96.2	0.85	0.89	0.90
		3580	586/7TS	746	373	298	6.6	160%	230%	28	3621	84.0	1.15	95.4	96.2	96.2	0.86	0.90	0.91
		1780	447/9T	788	394	315	6.9	250%	240%	14	2675	---	1.15	95.8	96.2	96.2	0.77	0.84	0.86
		1790	586/7T	788	394	315	6.4	200%	200%	23	2675	78.0	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1190	586/7T	842	421	337	6.3	210%	210%	29	3784	77.0	1.15	95.4	95.8	95.8	0.67	0.77	0.81
		895	586/7T*	852	426	341	6.4	160%	230%	34	4309	75.0	1.15	95.4	95.8	95.8	0.64	0.75	0.80
		1190	L447/9T	830	415	332	6.9	250%	270%	23	3574	71	1.15	95.4	95.8	95.8	0.66	0.77	0.82
400	300	3580	586/7TS	860	430	344	6.5	180%	220%	48	3749	84.0	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		3580	L447/9TS	864	432	346	6.7	220%	250%	25	3157	88	1	95.4	95.8	95.8	0.85	0.9	0.91
		1790	586/7T	910	455	364	6.4	200%	220%	19	3455	78.0	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1785	L447/9T	890	445	356	6.5	250%	260%	21	3285	79	1.15	95.4	95.8	96.2	0.8	0.85	0.88
		1190	586/7T	966	483	386	6.5	230%	210%	29	4115	77.0	1.15	95.4	95.8	96.2	0.67	0.77	0.81
		1190	L447/9T	954	477	382	6.9	240%	250%	13	3682	71	1	95.4	95.8	95.8	0.68	0.78	0.82
		895	588/9T	996	498	398	6.4	150%	230%	47	4851	75.0	1.15	95.0	95.6	95.7	0.62	0.73	0.79
450	330	3580	586/7TS	946	473	378	6.6	200%	230%	34	3918	84.0	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		3575	L447/9TS	950	475	380	7.2	240%	260%	26	3267	88	1	95.4	95.8	95.8	0.84	0.89	0.91
		1790	586/7T	1002	501	401	6.8	240%	210%	16	3640	78.0	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1190	586/7T	1064	532	426	6.2	210%	210%	26	4384	77.0	1.15	95.8	96.2	96.2	0.67	0.77	0.81
		1785	L447/9T	1002	501	401	6.9	260%	250%	22	3395	79	1	95.4	96.2	96.2	0.74	0.83	0.86
		895	588/9T	1080	540	432	6.5	160%	230%	46	5281	75.0	1.15	95.2	95.7	95.8	0.63	0.74	0.80
500	370	3580	586/7TS	1060	530	424	6.8	220%	240%	39	4086	84.0	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		1790	586/7T	1110	555	444	6.5	240%	200%	16	3912	78.0	1.15	95.8	96.2	96.2	0.80	0.85	0.87
		1190	586/7T	1206	603	482	6.5	220%	210%	25	4403	77.0	1.15	95.8	96.2	96.2	0.66	0.76	0.80
		1789	L447/9T	1122	561	449	7.5	290%	260%	22	3461	79	1	95.4	96.2	96.2	0.73	0.82	0.86
550	400	1190	588/9T	1322	661	529	6.5	220%	230%	30	4734	77.0	1.15	95.2	96.0	96.1	0.63	0.74	0.79
600	450	3585	588/9TS	1300	650	520	7.4	230%	270%	33	4410	89.0	1.15	96.0	96.5	96.5	0.84	0.89	0.90
		1790	586/7T	1330	665	532	7.1	220%	250%	16	4335	78.0	1.15	96.2	96.4	96.5	0.74	0.82	0.86
		1190	588/9T	1486	743	594	6.5	220%	230%	31	5173	77.0	1.15	95.4	96.1	96.2	0.63	0.74	0.79
650	480	3585	588/9TS	1370	685	548	7.1	200%	240%	56	4635	89.0	1.15	96.1	96.6	96.6	0.86	0.90	0.91
		1790	588/9T	1468	734	587	7.4	250%	270%	22	4395	81.0	1.15	96.0	96.5	96.6	0.71	0.81	0.85
700	515	3585	588/9TS*	1472	736	589	7.2	230%	250%	34	4805	89.0	1.15	96.2	96.6	96.6	0.86	0.90	0.91
		1790	588/9T	1576	788	630	7.0	250%	260%	23	4584	81.0	1.15	96.2	96.5	96.6	0.71	0.81	0.85
750	560	1790	588/9T*	1680	840	672	7.0	240%	250%	29	4952	81.0	1.00	96.3	96.6	96.7	0.70	0.80	0.85

* Not Division 2

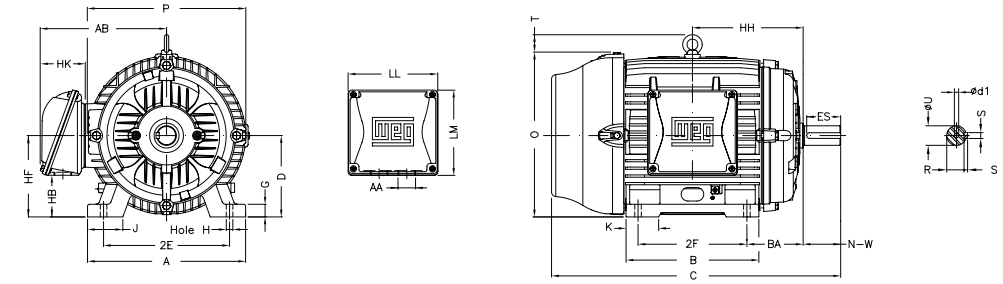
W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

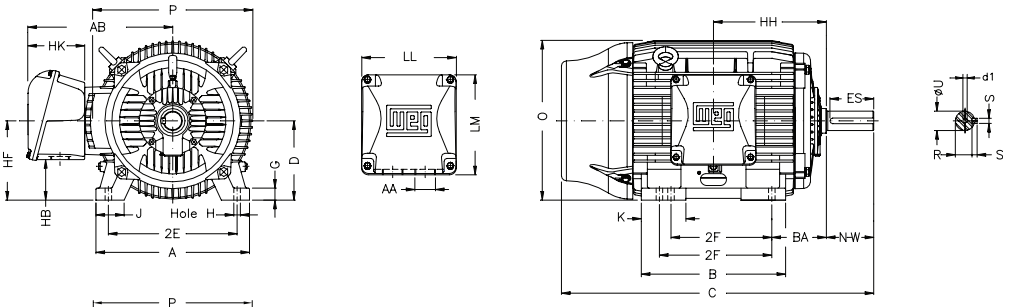
Frames 143T to 184T



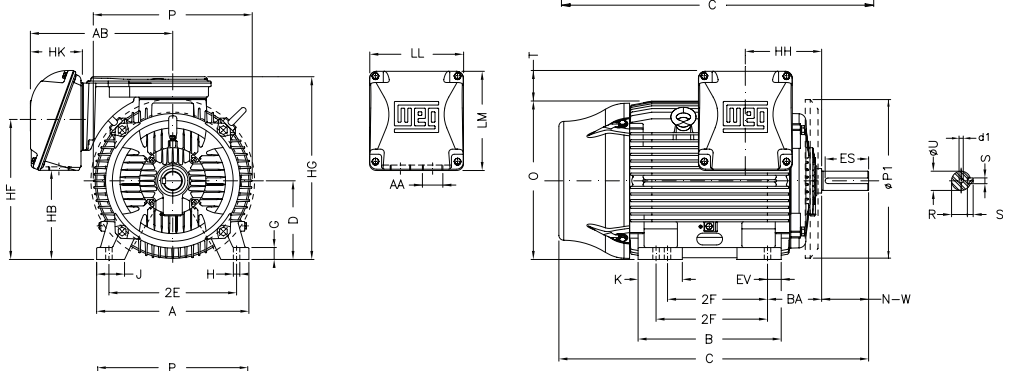
Frames 213T to 326T



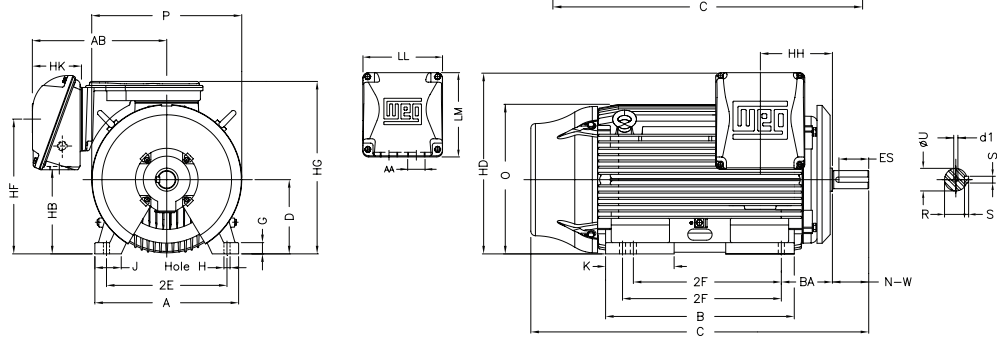
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T



W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

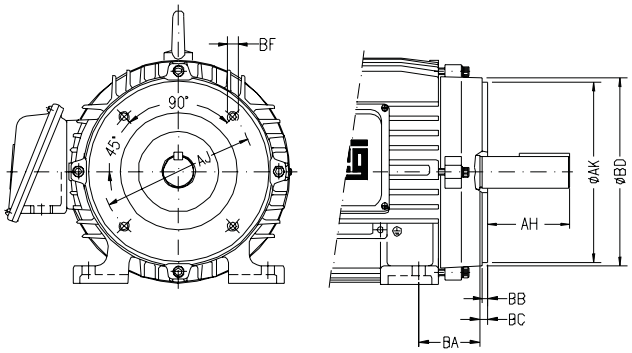
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
182/4T	7.500	5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
213/5T	8.500	7.000		3.500	9.764	8.858	19.517	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
254/6T	10.000	10.000		4.250	12.126	11.732	24.945	6.250		2.539	12.598	2.559	12.953		0.375	1.406	2.756	4.000	1.625
284/6TS	11.000	11.000	0.531	4.750	13.780	13.071	26.557	7.000	1.023	3.110	14.067	2.874	14.173	2.087	0.375	1.406	2.480	3.250	1.625
284/6T							27.929								0.500	1.594	3.149	4.622	1.875
324/6TS	12.500	12.000	0.657	5.250	15.157	14.567	29.616	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.594	2.756	3.750	1.875
324/6T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260/12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.716	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244/13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500/16.500		7.500	21.929	20.315	41.443	11.000	1.630		22.795	5.866	23.583		0.625	2.021	3.000	4.750	2.375
444/5T							45.193								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500/20.000			21.496	23.897	45.301		1.654		25.291			4.620	0.625	2.021	3.000	4.750	2.375
445/7T							49.051								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000/25.000			21.929	31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000/25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
504/5TS	20.000	16.000/18.000	1.250	8.500	24.724	24.449	48.215	12.500	2.146	4.724	25.425	7.228		4.880	0.625	2.021	3.000	4.750	2.375
504/5T							54.095								0.875	3.134	8.661	10.630	3.625
586/7TS	23.000	22.000/25.000	1.181	10.000	29.528	29.921	54.829	14.500	2.492	5.512	28.985	9.055	28.977	5.590	0.625	2.021	3.000	4.750	2.375
586/7T							61.704								1.000	3.312	8.661	11.625	3.875
588/9TS		28.000/32.000				37.980	62.506					12.795		8.464	0.625	2.021	3.000	4.750	2.375
588/9T							69.381								1.000	3.312	8.661	11.625	3.875

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143/5T	6.181	1.728	3.500		4.750	2.638	4.527	4.094	NPT3/4"		6205 ZZ	6204 ZZ
182/4T	7.559	2.236	4.500		5.500	3.110	5.512	5.236	NPT1"		6207 ZZ	6206 ZZ
213/5T	8.583	3.006	5.250		7.000						6308 ZZ	6207 ZZ
254/6T	10.394	3.061	6.565		9.250	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
284/6TS	10.984	3.535	7.000		10.250						6311 C3	6211 C3
284/6T												
324/6TS	12.480	4.811	8.708	-	11.250	4.645	8.976	8.543	NPT 2"	A 4	6312 C3	6212 C3
324/6T												
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213							
404/5T											6316 C3	
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890			6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040			6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244	2xNPT 3"		6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
504/5TS	20.670	15.275	24.291	29.409	10.394	6.968	14.646	15.040			6314 C3	6314 C3
504/5T											6319 C3	6316 C3
586/7TS	23.977	17.322	26.732	34.015	13.386	8.464	15.906	17.244			6314 C3	6314 C3
586/7T										UNC 7/8"-9	6322 C3	6319 C3
588/9TS	27.600	8.464	28.346			12.520	17.441	28.740		UNC 3/4"-10	6314 C3	6314 C3
588/9T										UNC 7/8"-9	6322 C3	6319 C3

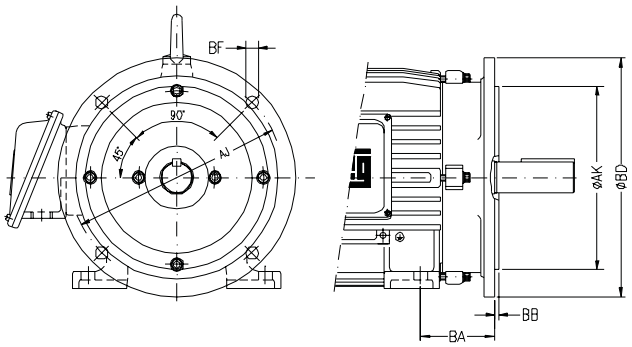
W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143/5TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2.125
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.75
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
L447/9TC									8.250
L447/9TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500
588/9TC	Available on request								
588/9TSC									



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



W22 Super Premium Efficiency Motors

TEFC - Severe Duty

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 & 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing:
  - V’Ring sealing up to frame 324/6T.
  - WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 364/5T and up
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T, all 2 pole motors
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5T and up.
- Insulated endbells from frame L447/9T and up
- NEMA design “A”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 586/7T
- Color: RAL 6002 - Green
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T and up
- All frames have dual mounting

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 586/7T ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated bearings
- Insulated endbells (standard for frame L447/9T and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- No feet

W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
1	3600	143/5T	$614	$737	$744	HT000X02SPW22	1.34	1.08	84.0	39.7	13.346	0.875
	1800	L143/5T	$574	$701	$708	HT000X04SPW22	1.33	1.06	87.5	50.7	14.566	0.875
1.5	3600	143/5T	$633	$755	$763	HT001X02SPW22	1.92	1.54	86.5	41.9	13.346	0.875
	1800	L143/5T	$617	$740	$747	HT001X04SPW22	1.93	1.54	88.5	55.1	14.566	0.875
2	3600	143/5T	$663	$786	$793	HT002X02SPW22	2.56	2.05	87.5	50.7	13.346	0.875
	1800	L143/5T	$642	$764	$772	HT002X04SPW22	2.64	2.11	88.5	57.3	14.566	0.875
3	3600	182/4T	$813	$966	$976	HT003X02SPW22	3.67	2.94	88.5	88.2	15.86	1.125
	1800	L182/4T	$813	$966	$976	HT003X04SPW22	3.76	3.01	91.0	92.6	15.86	1.125
	1200	L213/5T	$1,284	$1,467	$1,482	HT003X06SPW22	4.30	3.44	90.2	172	19.517	1.375
5	3600	182/4T	$951	$1,103	$1,114	HT005X02SPW22	5.99	4.79	90.2	94.8	15.86	1.125
	1800	L182/4T	$923	$1,076	$1,087	HT005X04SPW22	6.40	5.12	91.0	101	17.041	1.125
	1200	L213/5T	$1,534	$1,718	$1,735	HT005X06SPW22	6.83	5.46	91.0	198	20.905	1.375
7.5	3600	213/5T	$1,244	$1,427	$1,442	HT007X02SPW22	8.82	7.06	91.0	141	19.517	1.375
	1800	L213/5T	$1,223	$1,406	$1,420	HT007X04SPW22	8.94	7.15	93.0	172	19.517	1.375
	1200	254/6T	$2,363	$2,638	$2,664	HT007X06SPW22	9.46	7.57	92.4	304	24.945	1.625
10	3600	213/5T	$1,434	$1,617	$1,633	HT010X02SPW22	11.5	9.20	91.7	172	19.517	1.375
	1800	L213/5T	$1,443	$1,626	$1,642	HT010X04SPW22	12.0	9.60	93.0	181	20.905	1.375
	1200	254/6T	$2,613	$2,888	$2,917	HT010X06SPW22	12.7	10.2	92.4	344	24.945	1.625
15	3600	254/6T	$2,170	$2,445	$2,470	HT015X02SPW22	17.4	13.9	92.4	273	24.945	1.625
	1800	254/6T	$2,078	$2,354	$2,377	HT015X04SPW22	17.8	14.2	93.6	280	24.945	1.625
	1200	284/6T	$3,561	$3,928	$3,967	HT015X06SPW22	18.1	14.5	93.0	410	27.929	1.875
20	3600	254/6T	$2,913	$3,198	$3,230	HT020X02SPW22	23.0	18.4	93.0	311	24.945	1.625
	1800	254/6T	$2,647	$2,932	$2,961	HT020X04SPW22	24.7	19.8	94.1	326	24.945	1.625
	1200	284/6T	$4,495	$4,875	$4,924	HT020X06SPW22	24.4	19.5	93.0	474	27.929	1.875
25	3600	284/6TS	$3,683	$4,050	$4,091	HT025X02SPW22	28.5	22.8	93.6	386	27.929	1.875
	1800	284/6T	$3,212	$3,579	$3,615	HT025X04SPW22	30.3	24.2	94.5	406	27.929	1.875
	1200	324/6T	$5,646	$6,104	$6,165	HT025X06SPW22	30.8	24.6	94.1	527	31.116	2.125
30	3600	284/6TS	$4,251	$4,631	$4,677	HT030X02SPW22	33.5	26.8	93.6	437	26.557	1.625
	1800	284/6T	$3,769	$4,149	$4,191	HT030X04SPW22	35.6	28.5	94.5	450	27.929	1.875
	1200	324/6T	$6,533	$7,008	$7,079	HT030X06SPW22	36.7	29.4	94.1	584	31.116	2.125
40	3600	324/6TS	$5,060	$5,485	$5,540	HT040X02SPW22	46.5	37.2	94.1	547	31.116	2.125
	1800	324/6T	$4,589	$4,997	$5,046	HT040X04SPW22	48.9	39.1	95.0	534	31.116	2.125
	1200	364/5T	$7,917	$8,732	$8,820	HT040X06SPW22	48.9	39.1	95.0	875	34.251	2.375
50	3600	324/6TS	$6,187	$6,611	$6,677	HT050X02SPW22	57.1	45.7	94.5	606	29.616	1.875
	1800	324/6T	$5,420	$5,844	$5,903	HT050X04SPW22	60.1	48.1	95.4	597	31.116	2.125
	1200	364/5T	$9,509	$10,358	$10,462	HT050X06SPW22	60.3	48.2	95.0	895	34.251	2.375
60	3600	364/5TS	$7,939	$8,754	$8,842	HT060X02SPW22	66.8	53.4	95.0	926	32.276	1.875
	1800	364/5T	$8,050	$8,866	$8,954	HT060X04SPW22	70.2	56.2	95.8	897	34.251	2.375
	1200	404/5T	$10,901	$11,716	$11,833	HT060X06SPBBW22405T	72.2	57.8	95.4	1111	39.73	2.875
75	3600	364/5TS	$10,625	$11,474	$11,588	HT075X02SPW22	82.6	66.1	95.0	937	32.276	1.875
	1800	364/5T	$10,013	$10,862	$10,971	HT075X04SPW22	86.8	69.4	95.8	919	34.251	2.375
	1200	404/5T	$12,323	$13,172	$13,303	HT075X06SPBBW22405T	89.3	71.4	95.4	1124	39.73	2.875
100	3600	404/5TS	$13,605	$14,454	$14,598	HT100X02SPBBW22405TS	110	88.0	95.4	1179	36.732	2.125
	1800	404/5T	$12,405	$13,254	$13,386	HT100X04SPBBW22405T	116	92.8	96.2	1188	39.73	2.875
	1200	444/5T	$16,938	$18,296	$18,479	HT100X06SPBBW22445T	124	99.2	95.8	1896	44.95	3.375
125	3600	444/5TS	$17,728	$19,087	$19,278	HT125X02SPBBW22445TS	136	109	95.8	1680	41.2	2.375
	1800	444/5T	$15,886	$17,245	$17,417	HT125X04SPBBW22445T	144	115	96.2	1722	44.95	3.375
	1200	444/5T	$20,290	$21,705	$21,922	HT125X06SPBBW22445T	152	122	95.8	1944	44.95	3.375
150	3600	444/5TS	$22,777	$24,192	$24,434	HT150X02SPBBW22445TS	163	130	96.2	1863	41.2	2.375
	1800	444/5T	$19,169	$20,584	$20,790	HT150X04SPBBW22445T	170	136	96.5	1951	44.95	3.375
	1200	447/9T	$23,669	$25,084	$25,335	HT150X06SPBBW22449T	179	143	96.2	2255	56.338	3.375
200	3600	445/7TS	$27,830	$29,189	$29,480	HT200X02SPBBW22447TS	217	174	96.2	2028	44.951	2.375
	1800	447/9T	$23,539	$24,954	$25,203	HT200X04SPBBW22449T	234	187	96.8	2293	56.338	3.375
	1200	447/9T	$30,161	$31,576	$31,892	HT200X06SPBBW22449T	245	196	96.2	2326	56.338	3.375
250	3600	445/7TS	$31,468	$32,827	$33,155	HT250X02SPBBW22447TS	267	214	96.5	2183	44.951	2.375
	1800	447/9T	$34,336	$36,458	$36,823	HT250X04SPBBW22449T	286	229	96.8	2535	56.338	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Bearings: Replace 'RB' with 'BB' for Ball Bearings on frame 404/5T and up

W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Electrical Data

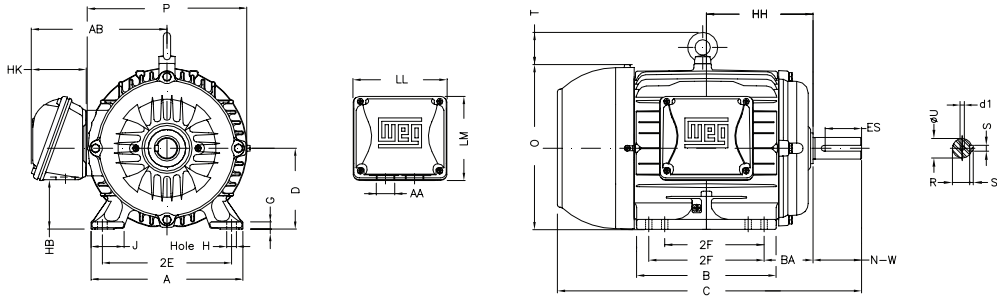
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3485	143/5T	2.70	1.35	1.08	7.2	250%	300%	36	39.7	68	1.25	81.5	82.5	84.0	0.69	0.79	0.83
		1760	L143/5T	2.66	1.33	1.06	9.0	260%	330%	33	50.7	51	1.25 *	84.0	86.5	87.5	0.59	0.70	0.79
1.5	1.1	3485	143/5T	3.84	1.92	1.54	8.4	300%	350%	29	41.9	68	1.25	84.0	85.5	86.5	0.67	0.78	0.83
		1760	L143/5T	3.86	1.93	1.54	8.8	280%	340%	20	55.1	51	1.25 *	85.5	87.5	88.5	0.62	0.74	0.81
2	1.5	3490	143/5T	5.12	2.56	2.05	8.2	320%	360%	23	50.7	68	1.25	85.5	87.5	87.5	0.69	0.80	0.84
		1760	L143/5T	5.28	2.64	2.11	8.6	290%	360%	14	57.3	51	1.25 *	86.5	87.5	88.5	0.61	0.74	0.81
3	2.2	3520	182/4T	7.34	3.67	2.94	8.5	240%	360%	50	88.2	69	1.25	84.0	86.5	88.5	0.70	0.81	0.85
		1765	L182/4T	7.52	3.76	3.01	7.7	230%	320%	36	92.6	56	1.25	87.5	88.5	91.0	0.63	0.75	0.81
		1175	L213/5T	8.60	4.30	3.44	6.6	180%	290%	90	172	55	1.25	87.5	89.5	90.2	0.51	0.63	0.71
5	3.7	3505	182/4T	12.0	5.99	4.79	8.2	240%	350%	30	94.8	69	1.25	87.5	88.5	90.2	0.73	0.83	0.86
		1755	L182/4T	12.8	6.40	5.12	7.5	230%	310%	20	101	56	1.25 *	88.5	90.2	91.0	0.61	0.73	0.80
		1170	L213/5T	13.7	6.83	5.46	6.5	190%	250%	70	198	55	1.25 *	89.5	91.0	91.0	0.56	0.68	0.75
7.5	5.5	3530	213/5T	17.6	8.82	7.06	7.6	230%	330%	37	141	72	1.25	87.5	89.5	91.0	0.73	0.82	0.86
		1770	L213/5T	17.9	8.94	7.15	8.5	230%	350%	20	172	58	1.25	91.0	92.4	93.0	0.65	0.76	0.83
		1175	254/6T	18.9	9.46	7.57	6.8	250%	310%	50	304	59	1.25	90.2	91.7	92.4	0.60	0.72	0.79
10	7.5	3535	213/5T	23.0	11.5	9.20	8.0	240%	320%	34	172	72	1.25	89.5	91.0	91.7	0.77	0.85	0.89
		1765	L213/5T	24.0	12.0	9.60	8.4	230%	350%	16	181	58	1.25 *	91.7	92.4	93.0	0.66	0.78	0.84
		1180	254/6T	25.4	12.7	10.2	6.8	240%	300%	40	344	59	1.25	91.0	92.4	92.4	0.62	0.74	0.80
15	11	3545	254/6T	34.8	17.4	13.9	7.7	270%	350%	28	273	72	1.25	90.2	91.7	92.4	0.72	0.82	0.86
		1775	254/6T	35.6	17.8	14.2	8.5	280%	330%	20	280	64	1.25	91.7	93.0	93.6	0.66	0.76	0.83
		1180	284/6T	36.2	18.1	14.5	7.1	260%	300%	25	410	59	1.25	91.7	92.4	93.0	0.65	0.76	0.82
20	15	3545	254/6T	46.0	23.0	18.4	7.6	260%	340%	23	311	72	1.25	91.0	92.4	93.0	0.75	0.84	0.88
		1770	254/6T	49.4	24.7	19.8	7.4	260%	300%	30	326	64	1.25	93.0	93.6	94.1	0.63	0.75	0.81
		1180	284/6T	48.8	24.4	19.5	7.4	270%	300%	20	474	59	1.25	91.7	92.4	93.0	0.67	0.78	0.83
25	18.5	3550	284/6TS	57.0	28.5	22.8	7.5	240%	330%	20	386	72	1.25	91.7	93.0	93.6	0.75	0.83	0.87
		1775	284/6T	60.6	30.3	24.2	8.3	300%	340%	26	406	64	1.25	93.0	94.1	94.5	0.62	0.74	0.81
		1185	324/6T	61.6	30.8	24.6	7.3	260%	310%	30	527	62	1.25	92.4	93.6	94.1	0.61	0.73	0.80
30	22	3550	284/6TS	67.0	33.5	26.8	7.5	240%	330%	19	437	72	1.25	92.4	93.6	93.6	0.76	0.84	0.88
		1775	284/6T	71.2	35.6	28.5	8.0	320%	350%	25	450	64	1.25	93.0	94.1	94.5	0.64	0.76	0.82
		1185	324/6T	73.4	36.7	29.4	7.0	260%	300%	27	584	62	1.25	92.4	93.6	94.1	0.60	0.73	0.80
40	30	3565	324/6TS	93.0	46.5	37.2	7.5	280%	300%	27	547	74	1.25	92.4	94.1	94.1	0.74	0.83	0.86
		1780	324/6T	97.8	48.9	39.1	7.4	260%	300%	22	534	66	1.25	93.6	94.5	95.0	0.64	0.75	0.81
		1185	364/5T	97.8	48.9	39.1	8.4	260%	320%	22	875	66	1.25	93.6	94.5	95.0	0.64	0.76	0.81
50	37	3570	324/6TS	114.2	57.1	45.7	7.7	300%	300%	25	606	74	1.25	93.0	94.5	94.5	0.74	0.83	0.86
		1780	324/6T	120.2	60.1	48.1	7.4	260%	300%	20	597	66	1.25	94.1	95.0	95.4	0.62	0.73	0.81
		1185	364/5T	120.6	60.3	48.2	8.5	260%	330%	12	895	66	1.25	93.6	94.5	95.0	0.63	0.75	0.81
60	45	3570	364/5TS	133.6	66.8	53.4	7.9	240%	320%	25	926	79	1.25	93.0	94.5	95.0	0.79	0.86	0.89
		1780	364/5T	140.4	70.2	56.2	7.6	270%	320%	24	897	67	1.25	94.5	95.4	95.8	0.69	0.80	0.84
		1185	404/5T	144.4	72.2	57.8	7.9	280%	320%	22	1111	68	1.25	94.1	95.0	95.4	0.65	0.77	0.82
75	55	3570	364/5TS	165.2	82.6	66.1	8.0	260%	320%	14	937	79	1.25	93.6	95.0	95.0	0.77	0.85	0.88
		1780	364/5T	173.6	86.8	69.4	7.7	280%	320%	16	919	67	1.25	94.5	95.4	95.8	0.68	0.78	0.83
		1190	404/5T	178.6	89.3	71.4	8.0	280%	300%	15	1124	68	1.25	94.1	95.0	95.4	0.64	0.75	0.81
100	75	3565	404/5TS	220	110	88.0	8.0	290%	320%	20	1179	79	1.25	94.5	95.4	95.4	0.81	0.87	0.89
		1780	404/5T	232	116	92.8	8.8	270%	310%	12	1188	68	1.25	95.4	95.8	96.2	0.70	0.80	0.84
		1190	444/5T	248	124	99.2	7.6	260%	320%	27	1896	69	1.25	94.5	95.4	95.8	0.60	0.72	0.79
125	90	3580	444/5TS	272	136	109	8.2	230%	310%	44	1680	81	1.15	94.1	95.4	95.8	0.76	0.84	0.87
		1785	444/5T	288	144	115	7.2	220%	280%	38	1722	73	1.15	95.0	95.8	96.2	0.68	0.79	0.84
		1190	444/5T	304	152	122	7.2	240%	260%	25	1944	69	1.15	95.0	95.8	95.8	0.62	0.74	0.80
150	110	3580	444/5TS	326	163	130	7.9	260%	320%	30	1863	81	1.15	94.5	95.8	96.2	0.77	0.85	0.88
		1785	444/5T	340	170	136	8.9	250%	300%	30	1951	73	1.15	95.4	96.2	96.5	0.68	0.79	0.84
		1190	447/9T	358	179	143	7.5	260%	320%	22	2255	69	1.15	95.0	95.8	96.2	0.62	0.74	0.80
200	150	3575	445/7TS	434	217	174	7.3	240%	290%	28	2028	81	1.15	95.4	96.2	96.2	0.83	0.88	0.90
		1785	447/9T	468	234	187	7.7	280%	300%	24	2293	75	1.15	95.8	96.5	96.8	0.66	0.77	0.83
		1190	447/9T	490	245	196	7.5	260%	300%	15	2326	69	1.15	95.4	95.8	96.2	0.60	0.72	0.80
250	185	3575	445/7TS	534	267	214	7.9	220%	300%	23	2183	81	1.15	95.8	96.5	96.5	0.82	0.88	0.90
		1785	447/9T	572	286	229	7.5	270%	290%	21	2535	75	1.15	96.2	96.5	96.8	0.68	0.78	0.84

* 1.00 SF at 208V

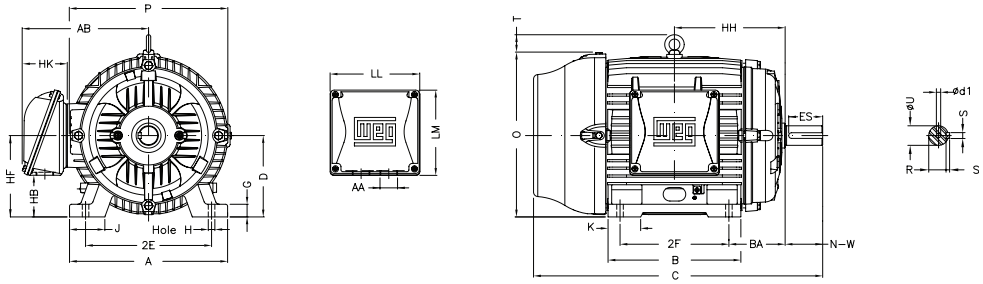
W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

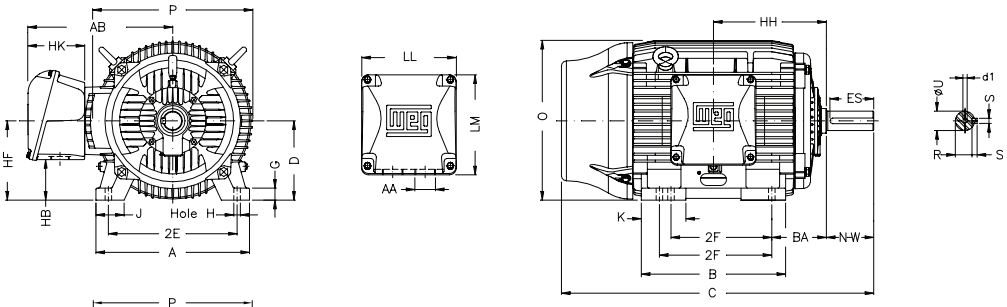
Frames 143T to 184T



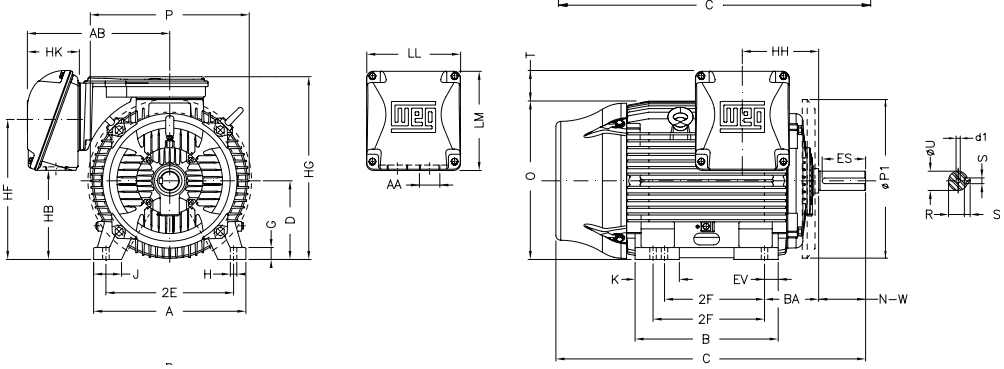
Frames 213T to 326T



Frames 364 to 444/5T



Frames 445/7T to 586/7T



W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

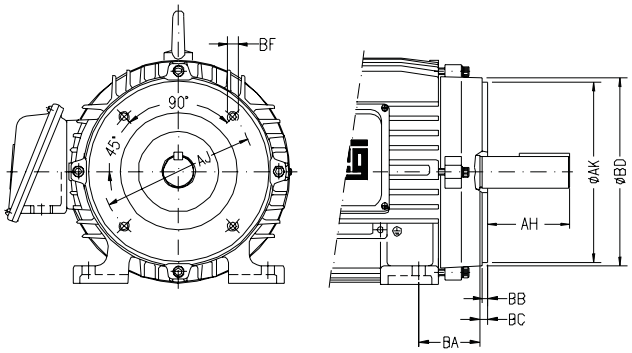
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	4.000/5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
L143/5T							14.566												
182/4T	7.500	4.500/5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
L182/4T							17.041												
213/5T	8.500	5.500/7.000		3.500	9.764	8.858	19.517	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
L213/5T							20.461												
254/6T	10.000	8.252/10.000	0.531	4.250	12.126	11.732	24.945	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6TS	11.000	9.500/11.000		4.750	13.780	13.071	26.557	7.000	1.023	3.110	14.067	2.874	14.173		0.375	1.406	2.480	3.250	1.625
284/6T							27.929								0.500	1.594	3.149	4.622	1.875
324/6TS	12.500	10.500/12.000	0.657	5.250	15.157	14.567	29.616	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.594	2.756	3.750	1.875
324/6T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260/12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.716	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244/13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500/16.500		7.500	21.929	20.315	41.443	11.000	1.630		22.795	5.866	23.583	4.620	0.625	2.021	3.000	4.750	2.375
444/5T							45.193								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500/20.000			21.496	23.897	45.301		1.654		25.291				0.625	2.021	3.000	4.750	2.375
445/7T							49.051								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000/25.000			21.929	31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000/25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
586/7T	23.000	22.000/25.000	1.181	10.000	29.528	29.921	61.902	14.500	2.492	5.512	28.985	9.055	28.977	5.590	1.000	3.312	8.661	11.625	3.875

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143/5T	6.181	1.728	3.500	-	4.750	2.638	4.527	4.094	NPT3/4"	A 4	6205 ZZ	6204 ZZ
L143/5T												
182/4T	7.559	2.236	4.500		5.500	3.110	5.512	5.236	NPT1"		6207 ZZ	6206 ZZ
L182/4T												
213/5T	8.583	3.006	5.250		7.000						6308 ZZ	6207 ZZ
L213/5T												
254/6T	10.394	3.061	6.565		9.250	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
284/6TS	10.984	3.535	7.000		10.250						6311 C3	6211 C3
284/6T												
324/6TS	12.480	4.811	8.708		11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324/6T												
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"	UNC 3/4"-10	6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213						6316 C3	
404/5T												
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040			6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244			6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
586/7T	23.977	17.322	26.732	34.015	13.386					UNC 7/8"-9		

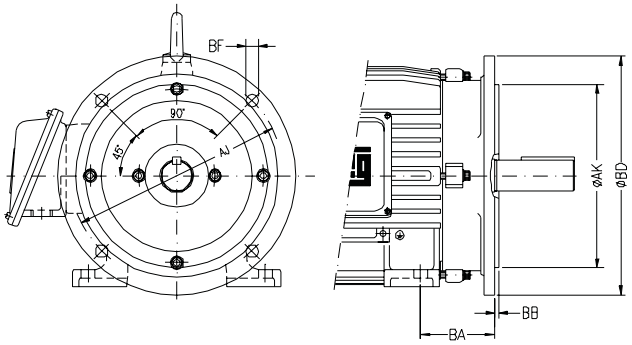
W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143/5TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2.125
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.75
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
L447/9TC									8.250
L447/9TSC									4.500
586/7TC	10.000	14.500	16.500						11.375



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
586/7T	10.000	30.000	28.000	32.000			0.250



W22 IEEE 841-2009 Motors

TEFC - Severe Duty

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 460V & 575V - 3 Lead only
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Inpro Seal
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T and all 2 pole motors
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5T and up.
- Insulated endbells from frame L447/9T and up
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Lead separator
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate with laser etching
- Stainless steel drain/breather plug
- All frames have dual mounting
- All cast iron construction: frame, endshields, terminal box and fan cover
- Regreasable ball bearings D.E. and N.D.E.
- Paint plan: 202E
- Color: RAL 5009 (Blue)
- Corrosion resistant epoxy finish
- Internal epoxy paint
- Oversized rotatable cast iron conduit box

NEMA Premium

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 586/7T ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
447/9T - 588/9T > 250 HP	All	6:1		Any
	All	12:1*		WEG

* Can only be achieved by a WEG VFD running in Sensorless Vector
See page 7.6 for details

Optional Features

- 50 Hz
- Special Voltages
- Specially designed shaft
- Space heaters
- Second shaft end
- Thermistors, Thermostats or RTD's (PT100 - 3 wire)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Flange mount
- Bronze fan
- Inpro Seals
- Super premium efficiency

W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
1	3600	143/5T	$758	$917	$926	IE000X02W22IS	1.43	1.14	78.5	36.4	13.346	0.875
	1800	143/5T	$736	$894	$903	IE000X04W22IS	1.41	1.13	85.5	40.8	13.346	0.875
	1200	143/5T	$867	$1,017	$1,028	IE000X06W22IS	1.73	1.38	82.5	53	13.346	0.875
	900	182/4T	$1,338	$1,542	$1,558	IE000X08W22IS	2.30	1.84	78.5	95	15.86	1.125
1.5	3600	143/5T	$781	$931	$941	IE001X02W22IS	1.91	1.53	84.0	40.8	13.346	0.875
	1800	143/5T	$785	$936	$945	IE001X04W22IS	2.02	1.62	86.5	49	13.346	0.875
	1200	182/4T	$1,037	$1,241	$1,254	IE001X06W22IS	2.39	1.91	87.5	70.3	15.86	1.125
	900	182/4T	$1,613	$1,818	$1,836	IE001X08W22IS	2.70	2.16	82.5	110.9	15.86	1.125
2	3600	143/5T	$811	$961	$971	IE002X02W22IS	2.56	2.05	85.5	51.8	13.346	0.875
	1800	143/5T	$811	$961	$971	IE002X04W22IS	2.61	2.09	86.5	51	13.346	0.875
	1200	182/4T	$1,123	$1,327	$1,340	IE002X06W22IS	3.23	2.58	88.5	87.5	15.86	1.125
	900	213/5T	$1,998	$2,267	$2,290	IE002X08W22IS	3.39	2.71	85.5	148.8	19.517	1.375
3	3600	182/4T	$1,024	$1,228	$1,240	IE003X02W22IS	3.63	2.90	86.5	88	15.86	1.125
	1800	182/4T	$1,024	$1,228	$1,240	IE003X04W22IS	3.88	3.10	89.5	90	15.86	1.125
	1200	213/5T	$1,615	$1,884	$1,903	IE003X06W22IS	4.42	3.53	89.5	121	19.517	1.375
	900	213/5T	$2,188	$2,456	$2,481	IE003X08W22IS	4.56	3.65	85.5	176	19.517	1.375
5	3600	182/4T	$1,209	$1,413	$1,427	IE005X02W22IS	5.90	4.72	88.5	88	15.86	1.125
	1800	182/4T	$1,116	$1,321	$1,334	IE005X04W22IS	6.45	5.16	89.5	95	15.86	1.125
	1200	213/5T	$1,927	$2,196	$2,218	IE005X06W22IS	6.85	5.48	89.5	162	19.517	1.375
	900	254/6T	$3,334	$3,678	$3,715	IE005X08W22IS	7.60	6.08	87.5	258	24.945	1.625
7.5	3600	213/5T	$1,725	$1,994	$2,014	IE007X02W22IS	8.75	7.00	89.5	139	19.517	1.375
	1800	213/5T	$1,531	$1,800	$1,818	IE007X04W22IS	9.00	7.20	91.7	154	19.517	1.375
	1200	254/6T	$3,054	$3,398	$3,432	IE007X06W22IS	9.50	7.60	91.0	262	24.945	1.625
	900	254/6T	$4,031	$4,375	$4,419	IE007X08W22IS	11.1	8.88	87.5	284	24.945	1.625
10	3600	213/5T	$1,944	$2,213	$2,235	IE010X02W22IS	11.6	9.28	90.2	163	19.517	1.375
	1800	213/5T	$1,846	$2,114	$2,136	IE010X04W22IS	12.4	9.92	91.7	172	19.517	1.375
	1200	254/6T	$3,377	$3,721	$3,758	IE010X06W22IS	12.9	10.3	91.0	289	24.945	1.625
	900	284/6T	$4,739	$5,147	$5,199	IE010X08W22IS	13.4	10.7	90.2	373	27.929	1.875
15	3600	254/6T	$2,295	$2,639	$2,666	IE015X02W22IS	17.2	13.8	91.0	236	24.945	1.625
	1800	254/6T	$2,080	$2,424	$2,448	IE015X04W22IS	18.0	14.4	92.4	251	24.945	1.625
	1200	284/6T	$3,768	$4,177	$4,219	IE015X06W22IS	17.9	14.3	91.7	379	27.929	1.875
	900	284/6T	$5,450	$5,859	$5,918	IE015X08W22IS	19.4	15.5	90.2	417	27.929	1.875
20	3600	254/6T	$2,699	$3,044	$3,074	IE020X02W22IS	23.2	18.6	91.0	269	24.945	1.625
	1800	254/6T	$2,452	$2,796	$2,824	IE020X04W22IS	24.1	19.3	93.0	291	24.945	1.625
	1200	284/6T	$4,164	$4,573	$4,619	IE020X06W22IS	24.2	19.4	91.7	425	27.929	1.875
	900	324/6T	$6,750	$7,266	$7,339	IE020X08W22IS	28.3	22.6	91.0	452	31.116	2.125
25	3600	284/6TS	$3,396	$3,805	$3,843	IE025X02W22IS	28.5	22.8	91.7	362	26.557	1.625
	1800	284/6T	$2,964	$3,373	$3,406	IE025X04W22IS	29.5	23.6	93.6	388	27.929	1.875
	1200	324/6T	$5,203	$5,719	$5,777	IE025X06W22IS	30.4	24.3	93.0	560	31.116	2.125
	900	324/6T	$7,249	$7,765	$7,843	IE025X08W22IS	35.9	28.7	91.0	509	31.116	2.125
30	3600	284/6TS	$3,721	$4,130	$4,171	IE030X02W22IS	33.8	27.0	91.7	392	26.557	1.625
	1800	284/6T	$3,297	$3,706	$3,743	IE030X04W22IS	35.1	28.1	93.6	437	27.929	1.875
	1200	324/6T	$5,713	$6,229	$6,291	IE030X06W22IS	35.8	28.6	93.0	553	31.116	2.125
	900	364/5T	$10,927	$11,658	$11,775	IE030X08W22IS	37.0	29.6	92.4	802	34.251	2.375
40	3600	324/6TS	$4,974	$5,479	$5,534	IE040X02W22IS	45.8	36.6	92.4	547	29.616	1.875
	1800	324/6T	$4,700	$5,205	$5,257	IE040X04W22IS	48.2	38.6	94.1	492	31.116	2.125
	1200	364/5T	$9,551	$10,267	$10,370	IE040X06W22IS	46.5	37.2	94.1	833	34.251	2.375
	900	364/5T	$11,661	$12,377	$12,501	IE040X08W22IS	50.0	40.0	92.4	875	34.251	2.375
50	3600	324/6TS	$6,031	$6,536	$6,601	IE050X02W22IS	56.0	44.8	93.0	584	31.116	2.125
	1800	324/6T	$5,285	$5,791	$5,848	IE050X04W22IS	59.0	47.2	94.5	536	31.116	2.125
	1200	364/5T	$10,914	$11,630	$11,746	IE050X06W22IS	57.5	46.0	94.1	869	34.251	2.375
	900	404/5T	$15,856	$16,740	$16,907	IE050X08W22IS	60.0	48.0	93.0	1012	39.73	2.875
60	3600	364/5TS	$9,463	$10,179	$10,281	IE060X02W22IS	67.0	53.6	93.6	825	32.276	1.875
	1800	364/5T	$8,781	$9,497	$9,591	IE060X04W22IS	68.5	54.8	95.0	869	34.251	2.375
	1200	404/5T	$13,024	$13,908	$14,047	IE060X06W22IS	69.5	55.6	94.5	1036	39.73	2.875
	900	404/5T	$18,658	$19,543	$19,738	IE060X08W22IS	73.0	58.4	93.0	1111	39.73	2.875
75	3600	364/5TS	$12,198	$12,914	$13,043	IE075X02W22IS	82.0	65.6	93.6	847	32.276	1.875
	1800	364/5T	$10,846	$11,562	$11,678	IE075X04W22IS	84.0	67.2	95.4	919	34.251	2.375
	1200	404/5T	$14,148	$15,032	$15,183	IE075X06W22IS	85.0	68.0	94.5	1089	39.73	2.875
	900	444/5T	$25,790	$26,974	$27,243	IE075X08W22IS	93.0	74.4	93.6	1444	44.95	3.375
100	3600	404/5TS	$15,226	$16,110	$16,272	IE100X02W22IS	110	88.0	94.1	1045	36.732	2.125
	1800	404/5T	$13,106	$13,990	$14,130	IE100X04W22IS	111	88.8	95.4	1140	39.73	2.875
	1200	444/5T	$20,014	$21,198	$21,410	IE100X06W22IS	121	96.8	95.0	1576	44.95	3.375
	900	444/5T	$24,272	$25,455	$25,710	IE100X08W22IS	127	102	94.1	1598	44.95	3.375

Flange: Add 'C' before 'IS' for C Flange
Add 'D' before 'IS' for D Flange

Voltage: Replace 'X' with '4' for 460V
Replace 'X' with '5' for 575V

W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
125	3600	444/5TS	$20,663	$21,846	$22,065	IE125X02W22IS	134	107	95.0	1598	41.2	2.375
	1800	444/5T	$16,416	$17,599	$17,775	IE125X04W22IS	139	111	95.4	1590	44.95	3.375
	1200	444/5T	$22,265	$23,449	$23,683	IE125X06W22IS	143	114	95.0	1750	44.95	3.375
	900	445/7T	$30,225	$31,408	$31,722	IE125X08W22447TIS	151	121	94.5	1887	48.701	3.375
	900	504/5T	$30,225	$31,739	$32,056	IE125X08W22505TIS	149	119	94.5	2110	54.095	3.625
150	3600	444/5TS	$24,066	$25,249	$25,501	IE150X02W22IS	161	129	95.0	1709	41.2	2.375
	1800	444/5T	$18,829	$20,012	$20,212	IE150X04W22IS	170	136	95.8	1675	44.95	3.375
	1200	445/7T	$25,245	$26,428	$26,692	IE150X06W22447TIS	176	141	95.8	2041	48.701	3.375
	1200	504/5T	$25,245	$26,759	$27,026	IE150X06W22505TIS	176	141	95.8	2249	54.095	3.625
	900	445/7T	$35,438	$36,622	$36,988	IE150X08W22447TIS	185	148	94.5	2041	48.701	3.375
	900	504/5T	$35,438	$36,952	$37,322	IE150X08W22505TIS	180	144	94.5	2293	54.095	3.625
200	3600	445/7TS	$29,612	$30,795	$31,103	IE200X02W22447TSIS	219	175	95.4	1914	44.951	2.375
	3600	504/5TS	$29,612	$31,126	$31,437	IE200X02W22505TSIS	222	178	95.4	2167	48.215	2.375
	1800	444/5T	$22,950	$24,133	$24,374	IE200X04W22445TIS	230	184	96.2	1899	45.157	3.375
	1800	445/7T	$22,950	$24,133	$24,374	IE200X04W22447TIS	230	184	96.2	1899	48.701	3.375
	1800	504/5T	$22,950	$24,464	$24,708	IE200X04W22505TIS	228	182	96.2	2273	54.095	3.625
	1200	445/7T	$31,709	$32,893	$33,221	IE200X06W22447TIS	237	190	95.8	2246	48.701	3.375
	1200	504/5T	$31,709	$33,223	$33,555	IE200X06W22505TIS	237	190	95.8	2458	54.095	3.625
	900	L447/9T	$50,241	$52,505	$53,030	IE200X08W22L449TIS	242	194	95.0	3550	57.181	3.375
	900	586/7T	$60,679	$63,321	$63,955	IE200X08W22587TIS	247	198	95.4	3333	61.902	3.875
250	3600	445/7TS	$31,429	$32,612	$32,939	IE250X02W22447TSIS	266	213	95.8	2158	44.951	2.375
	3600	504/5TS	$31,429	$32,943	$33,272	IE250X02W22505TSIS	269	215	95.8	2388	48.215	2.375
	1800	445/7T	$28,517	$29,700	$29,997	IE250X04W22447TIS	281	225	96.2	2079	48.701	3.375
	1800	504/5T	$28,517	$30,031	$30,331	IE250X04W22505TIS	277	222	96.2	2449	54.095	3.625
	1200	447/9T	$49,685	$51,949	$52,468	IE250X06W22449TIS	292	234	95.8	2537	56.338	3.375
	1200	586/7T	$57,138	$59,741	$60,338	IE250X06W22587TIS	299	239	95.8	3205	61.902	3.875
	900	L447/9T	$55,524	$57,788	$58,366	IE250X08W22L449TIS	297	238	95.4	3704	57.181	3.375
	900	586/7T	$74,359	$77,002	$77,772	IE250X08W22587TIS	299	239	95.8	3649	61.902	3.875
300	3600	447/9TS	$37,891	$40,155	$40,556	IE300X02W22449TSIS	320	256	95.8	2544	52.588	2.375
	1800	447/9T	$37,352	$39,616	$40,012	IE300X04W22449TIS	330	264	96.2	2381	56.338	3.375
	1800	586/7T	$42,707	$45,350	$45,803	IE300X04W22587TIS	334	267	96.2	3080	61.902	3.875
	1200	586/7T	$54,198	$56,840	$57,409	IE300X06W22587TIS	356	285	95.8	3494	61.902	3.875
	900	586/7T	$93,150	$95,793	$96,751	IE300X08W22587TIS	426	341	95.8	4309	61.902	3.875
350	3600	L447/9TS	$49,386	$52,029	$52,549	IE350X02W22L449TSIS	374	299	95.8	3470	57.181	3.375
	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE350X02W22587TSIS	373	298	96.2	3620	55.027	2.375
	1800	L447/9T	$45,971	$48,613	$49,100	IE350X04W22L449TIS	394	315	96.2	2867	57.181	3.375
	1800	586/7T	$56,036	$58,299	$58,882	IE350X04W22587TIS	394	315	96.2	2674	61.902	3.875
	1200	586/7T	$66,246	$68,889	$69,578	IE350X06W22587TIS	421	337	95.8	3783	61.902	3.875
	900	586/7T	$84,297	$88,269	$89,152	IE350X08W22587TIS	426	341	95.8	4308	61.902	3.875
400	3600	586/7TS	$58,150	$61,189	$61,801	IE400X02W22587TSIS	430	344	96.2	3748	55.027	2.375
	1800	L447/9T	$50,833	$53,475	$54,010	IE400X04W22L449TIS	455	364	96.2	3285	57.181	3.375
	1800	586/7T	$68,741	$71,384	$72,098	IE400X04W22587TIS	455	364	96.2	3455	61.902	3.875
	1200	586/7T	P.O.A	P.O.A	P.O.A	IE400X06W22587TIS	483	386	96.2	4114	61.902	3.875
	900	588/9T	P.O.A	P.O.A	P.O.A	IE400X08W22589TIS	498	398	95.7	4850	69.381	3.875
450	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE450X02W22587TSIS	473	378	96.2	3918	55.027	2.375
	1800	586/7T	P.O.A	P.O.A	P.O.A	IE450X04W22587TIS	501	401	96.2	3640	61.902	3.875
	1200	586/7T	P.O.A	P.O.A	P.O.A	IE450X06W22587TIS	532	426	96.2	4383	61.902	3.875
500	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE500X02W22587TSIS	530	424	96.2	4085	55.027	2.375
	1800	586/7T	P.O.A	P.O.A	P.O.A	IE500X04W22587TIS	555	444	96.2	3911	61.902	3.875
	1200	586/7T	P.O.A	P.O.A	P.O.A	IE500X06W22587TIS	603	482	96.2	4403	61.902	3.875

Flange: Add 'C' before 'IS' for C Flange
Add 'D' before 'IS' for D Flange

Voltage: Replace 'X' with '4' for 460V
Replace 'X' with '5' for 575V

W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3495	143/5T	2.86	1.43	1.14	8.2	280%	340%	22	36.4	68	1.25	74.0	77.0	78.5	0.69	0.79	0.84
		1760	143/5T	2.82	1.41	1.13	8.4	280%	350%	18	40.8	51	1.25	80.0	84.0	85.5	0.60	0.70	0.78
		1150	143/5T	3.45	1.73	1.38	6.2	300%	300%	28	52.9	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
		875	182/4T	4.60	2.30	1.84	6.0	300%	350%	22	94.8	50	1.25	74.0	77.0	78.5	0.32	0.42	0.52
1.5	1.1	3490	143/5T	3.82	1.91	1.53	8.9	350%	380%	21	40.8	68	1.25	81.5	84.0	84.0	0.72	0.82	0.86
		1755	143/5T	4.04	2.02	1.62	8.3	250%	340%	14	48.5	51	1.25	82.5	85.5	86.5	0.60	0.70	0.79
		1165	182/4T	4.78	2.39	1.91	8.0	320%	400%	16	70.3	52	1.25	84.0	86.5	87.5	0.45	0.56	0.66
		860	182/4T	5.40	2.70	2.16	5.5	250%	260%	17	111	50	1.25	80.0	82.5	82.5	0.43	0.54	0.62
2	1.5	3480	143/5T	5.12	2.56	2.05	8.9	350%	380%	17	51.8	68	1.25	82.5	85.5	85.5	0.71	0.80	0.86
		1750	143/5T	5.22	2.61	2.09	7.5	240%	300%	11	50.7	51	1.25	84.0	86.5	86.5	0.66	0.78	0.84
		1165	182/4T	6.45	3.23	2.58	7.5	300%	300%	31	87.5	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
		870	213/5T	6.78	3.39	2.71	7.6	240%	290%	39	149	52	1.25	82.5	84.0	85.5	0.45	0.55	0.65
3	2.2	3510	182/4T	7.26	3.63	2.90	8.3	240%	380%	41	88.2	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182/4T	7.76	3.88	3.10	8.1	230%	340%	23	90.4	56	1.25	86.5	88.5	89.5	0.61	0.73	0.79
		1170	213/5T	8.83	4.42	3.53	7.0	200%	280%	58	121	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
		865	213/5T	9.12	4.56	3.65	6.8	230%	280%	44	176	52	1.25	84.0	85.5	85.5	0.50	0.63	0.71
5	3.7	3500	182/4T	11.8	5.90	4.72	7.5	230%	350%	25	88.2	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1755	182/4T	12.9	6.45	5.16	7.5	230%	320%	15	94.8	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1160	213/5T	13.7	6.85	5.48	6.6	190%	240%	57	162	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
		880	254/6T	15.2	7.60	6.08	5.3	190%	250%	44	258	54	1.25	85.5	87.5	87.5	0.49	0.62	0.70
7.5	5.5	3520	213/5T	17.5	8.75	7.00	7.2	210%	300%	27	139	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1765	213/5T	18.0	9.00	7.20	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.66	0.77	0.83
		1175	254/6T	19.0	9.50	7.60	6.8	250%	300%	30	262	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
		880	254/6T	22.2	11.1	8.88	5.3	200%	250%	33	284	54	1.25	85.5	87.5	87.5	0.50	0.63	0.71
10	7.5	3515	213/5T	23.2	11.6	9.28	7.2	210%	290%	24	163	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1760	213/5T	24.8	12.4	9.92	6.4	200%	300%	17	172	58	1.25	90.2	91.7	91.7	0.66	0.77	0.83
		1175	254/6T	25.8	12.9	10.3	6.5	230%	280%	26	289	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
		880	284/6T	26.8	13.4	10.7	5.6	200%	240%	32	373	54	1.25	89.5	90.2	90.2	0.61	0.72	0.78
15	11	3530	254/6T	34.4	17.2	13.8	6.8	220%	270%	25	236	72	1.25	89.5	91.0	91.0	0.77	0.85	0.88
		1765	254/6T	36.0	18.0	14.4	6.5	230%	270%	17	251	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284/6T	35.8	17.9	14.3	6.6	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
		880	284/6T	38.8	19.4	15.5	5.5	200%	230%	25	417	54	1.25	90.2	91.0	90.2	0.62	0.73	0.79
20	15	3520	254/6T	46.4	23.2	18.6	6.1	200%	240%	21	269	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1765	254/6T	48.2	24.1	19.3	6.5	230%	270%	15	291	64	1.25	91.7	92.4	93.0	0.68	0.79	0.84
		1175	284/6T	48.4	24.2	19.4	6.2	230%	260%	16	426	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
		880	324/6T	56.6	28.3	22.6	5.0	190%	220%	27	452	56	1.25	89.5	91.0	91.0	0.54	0.66	0.73
25	18.5	3535	284/6TS	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	59	29.5	23.6	6.2	240%	270%	24	416	63	1.25	92.4	93	93.6	0.7	0.8	0.84
		1180	324/6T	60.8	30.4	24.3	6.2	210%	260%	26	560	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
		880	324/6T	71.8	35.9	28.7	5.2	200%	230%	23	509	56	1.25	89.5	91.0	91.0	0.51	0.64	0.71
30	22	3535	284/6TS	67.6	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	70.2	35.1	28.1	6.1	240%	240%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	71.6	35.8	28.6	6.2	230%	260%	21	553	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
		880	364/5T	74.0	37.0	29.6	6.2	170%	240%	20	803	60	1.25	92.4	92.4	92.4	0.63	0.74	0.80
40	30	3555	324/6TS	91.6	45.8	36.6	6.4	230%	240%	22	547	78	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1775	324/6T	96.4	48.2	38.6	6.2	220%	260%	20	492	66	1.25	93.0	94.1	94.1	0.67	0.78	0.83
		1180	364/5T	93.0	46.5	37.2	6.4	200%	240%	21	833	66	1.25	93.6	93.6	94.1	0.73	0.82	0.86
		880	364/5T	100	50.0	40.0	6.0	170%	230%	18	875	60	1.25	92.4	93.0	92.4	0.66	0.76	0.81
50	37	3550	324/6T	112	56.0	44.8	6.2	220%	230%	23	584	78	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1775	324/6T	118	59.0	47.2	6.2	230%	270%	15	536	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5T	115	57.5	46.0	6.4	200%	240%	18	869	66	1.25	93.6	94.1	94.1	0.74	0.83	0.86
		880	404/5T	120	60.0	48.0	6.8	170%	260%	15	1012	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
60	45	3560	364/5TS	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1775	364/5T	137	68.5	54.8	6.6	240%	260%	15	869	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
		1180	404/5T	139	69.5	55.6	6.4	200%	230%	20	1036	68	1.25	94.1	94.5	94.5	0.74	0.82	0.86
		880	404/5T	146	73.0	58.4	6.5	180%	270%	13	1111	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
75	55	3555	364/5TS	164	82.0	65.6	6.6	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1775	364/5T	168	84.0	67.2	6.4	240%	260%	14	919	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86
		1180	404/5T	170	85.0	68.0	6.4	200%	230%	17	1089	68	1.25	94.1	94.5	94.5	0.74	0.83	0.86
		890	444/5T	186	93.0	74.4	6.0	180%	210%	18	1444	63	1.25	93.0	93.6	93.6	0.64	0.74	0.79
100	75	3555	404/5TS	220	110	88.0	6.5	200%	240%	14	1045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		1775	404/5T	222	111	88.8	6.5	240%	260%	13	1140	68	1.25	95.0	95.0	95.4	0.77	0.84	0.88
		1185	444/5T	242	121	96.8	6.2	220%	260%	20	1577	69	1.25	94.5	95.0	95.0	0.68	0.78	0.82
		890	444/5T	254	127	102	6.0	190%	220%	15	1599	63	1.25	93.6	94.1	94.1	0.63	0.74	0.79
125	90	3570	444/5TS	268	134	107	6.6	200%	250%	29	1598	81	1.15	93.6	94.5	95.0	0.82	0.87	0.89
		1780	444/5T	278	139	111	6.5	200%	250%	27	1590	73	1.15	95.0	95.4	95.4	0.74	0.82	0.85
		1185	444/5T	286	143	114	6.4	210%	240%	19	1750	69	1.15	95.0	95.4	95.0	0.70	0.79	0.83
		890	445/7T	302	151	121	6.0	180%	210%	17	1887	63	1.15	94.5	94.5	94.5	0.64	0.74	0.79
		890	504/5T	298	149	119	5.8	180%	200%	23	2110	66	1.15	94.5	94.5	94.5	0.66	0.76	0.80

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Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
150	110	3570	444/5TS	322	161	129	6.5	180%	240%	22	1709	81	1.15	94.1	95.0	95.0	0.83	0.88	0.90
		1780	444/5T	340	170	136	6.6	200%	250%	27	1676	73	1.15	95.4	95.8	95.8	0.74	0.82	0.85
		1190	445/7T	352	176	141	6.7	240%	290%	20	2042	69	1.15	95.0	95.4	95.8	0.67	0.78	0.82
		1190	504/5T	352	176	141	6.7	230%	250%	29	2249	70	1.15	94.5	95.4	95.8	0.67	0.78	0.82
		890	445/7T	370	185	148	6.0	190%	210%	15	2042	63	1.15	94.5	94.5	94.5	0.64	0.74	0.79
		890	504/5T	360	180	144	5.8	180%	200%	21	2293	66	1.15	94.5	94.5	94.5	0.68	0.77	0.81
200	150	3570	445/7TS	438	219	175	7.2	240%	240%	14	1914	81	1.15	95.0	95.4	95.4	0.86	0.89	0.90
		3575	504/5TS	444	222	178	7.2	200%	270%	17	2168	81	1.15	94.1	95.0	95.4	0.81	0.87	0.89
		1780	445/7T	460	230	184	6.8	240%	250%	16	1899	---	1.15	95.4	96.2	96.2	0.73	0.82	0.85
		1785	504/5T	456	228	182	6.6	220%	220%	22	2273	---	1.15	95.4	96.2	96.2	0.75	0.83	0.86
		1190	445/7T	474	237	190	6.6	230%	240%	15	2247	69	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		1190	504/5T	474	237	190	6.6	220%	230%	21	2459	70	1.15	95.0	95.4	95.8	0.70	0.80	0.83
		895	586/7T	494	247	198	6.3	140%	210%	40	3334	75	1.15	95.0	95.4	95.4	0.65	0.75	0.80
		890	L447/9T	484	242	194	6.1	200%	220%	25	3550	64	1.15	94.6	95.0	95.0	0.70	0.79	0.82
250	185	3570	445/7TS	532	266	213	6.5	230%	220%	18	2159	81	1.15	95.4	95.8	95.8	0.87	0.90	0.91
		3575	504/5TS	538	269	215	7.0	200%	240%	23	2388	81	1.15	95.0	95.8	95.8	0.85	0.89	0.90
		1780	445/7T	562	281	225	6.6	230%	240%	15	2079	73	1.15	95.8	96.2	96.2	0.75	0.83	0.86
		1785	504/5T	554	277	222	6.6	230%	220%	20	2450	75	1.15	95.8	96.2	96.2	0.78	0.85	0.87
		1185	447/9T	584	292	234	6.7	240%	240%	12	2538	---	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		1190	586/7T	598	299	239	6.2	200%	210%	30	3206	77	1.15	95.0	95.4	95.8	0.68	0.77	0.81
		895	586/7T	598	299	239	6.2	140%	210%	40	3649	75	1.15	95.4	95.8	95.8	0.66	0.76	0.81
		890	L447/9T	594	297	238	6.1	200%	220%	25	3704	64	1.15	95.0	95.4	95.4	0.70	0.79	0.82
300	220	3570	447/9TS	640	320	256	7.0	250%	240%	14	2545	---	1.15	95.4	95.8	95.8	0.86	0.89	0.90
		3580	586/7TS	634	317	254	6.5	150%	220%	35	3382	84	1.15	95.0	95.8	95.8	0.87	0.90	0.91
		1780	447/9T	660	330	264	6.5	230%	230%	16	2381	---	1.15	95.8	96.2	96.2	0.77	0.84	0.87
		1790	586/7T	668	334	267	6.8	230%	230%	19	3080	78	1.15	95.4	96.2	96.2	0.77	0.84	0.86
		1190	586/7T	712	356	285	6.0	200%	200%	30	3495	77	1.15	95.4	95.8	95.8	0.69	0.78	0.81
		895	586/7T	712	356	285	6.5	150%	220%	40	4035	75	1.15	95.4	95.8	95.8	0.66	0.77	0.81
350	260	3580	586/7TS	746	373	298	6.6	160%	230%	28	3621	84	1.15	95.4	96.2	96.2	0.86	0.90	0.91
		3578	L447/9TS	748	374	299	6.7	250%	250%	25	3470	88	1.15	95.4	95.4	95.8	0.86	0.9	0.91
		1790	586/7T	788	394	315	6.4	200%	200%	23	2675	78	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1790	L447/9T	788	394	315	6.9	260%	250%	45	3238	77	1.15	95.8	96.2	96.2	0.76	0.83	0.86
		1190	586/7T	842	421	337	6.3	210%	210%	29	3784	77	1.15	95.4	95.8	95.8	0.67	0.77	0.81
		895	586/7T*	852	426	341	6.4	160%	230%	34	4309	75	1.00	95.4	95.8	95.8	0.64	0.75	0.80
400	300	3580	586/7TS	860	430	344	6.5	180%	220%	48	3749	84	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		1790	586/7T	910	455	364	6.4	200%	220%	19	3455	78	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1790	L447/9T	910	455	364	7.0	250%	260%	21	3285	79	1.15	95.4	95.8	96.2	0.74	0.82	0.86
		1190	586/7T	966	483	386	6.5	230%	210%	29	4115	77	1.15	95.4	95.8	96.2	0.67	0.77	0.81
		895	588/9T	996	498	398	6.7	150%	240%	25	4851	75	1.00	95.0	95.6	95.7	0.62	0.73	0.79
450	330	3580	586/7TS	946	473	378	6.6	200%	230%	34	3918	84	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		1790	586/7T	1002	501	401	6.8	240%	210%	16	3640	78	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1190	586/7T	1064	532	426	6.2	210%	210%	26	4384	77	1.00	95.8	96.2	96.2	0.67	0.77	0.81
500	370	3580	586/7TS	1060	530	424	6.8	220%	240%	39	4086	84	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		1790	586/7T	1110	555	444	6.5	240%	200%	16	3912	78	1.00	95.8	96.2	96.2	0.80	0.85	0.87
		1190	586/7T	1206	603	482	6.5	220%	210%	25	4403	77	1.00	95.8	96.2	96.2	0.66	0.76	0.80
550	400	1190	588/9T	1322	661	529	6.5	220%	230%	30	4734	77	1.00	95.2	96.0	96.1	0.63	0.74	0.79
600	450	3585	588/9TS	1300	650	520	7.4	230%	270%	33	4410	89	1.00	96.0	96.5	96.5	0.84	0.89	0.90
		1790	586/7T	1330	665	532	7.1	220%	250%	16	4335	78	1.00	96.2	96.4	96.5	0.74	0.82	0.86
650	480	3585	588/9TS	1370	685	548	7.1	200%	240%	56	4635	89	1.00	96.1	96.6	96.6	0.86	0.90	0.91
		1790	588/9T	1468	734	587	7.4	250%	270%	22	4395	81	1.00	96.0	96.5	96.6	0.71	0.81	0.85
700	515	1790	588/9T	1576	788	630	7.0	250%	260%	23	4584	81	1.00	96.2	96.5	96.6	0.71	0.81	0.85

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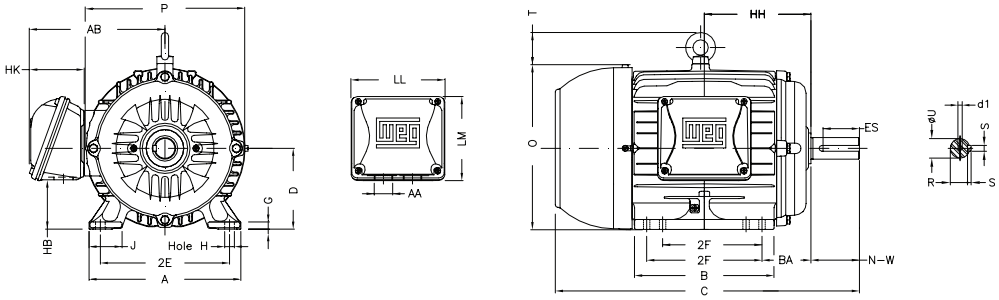
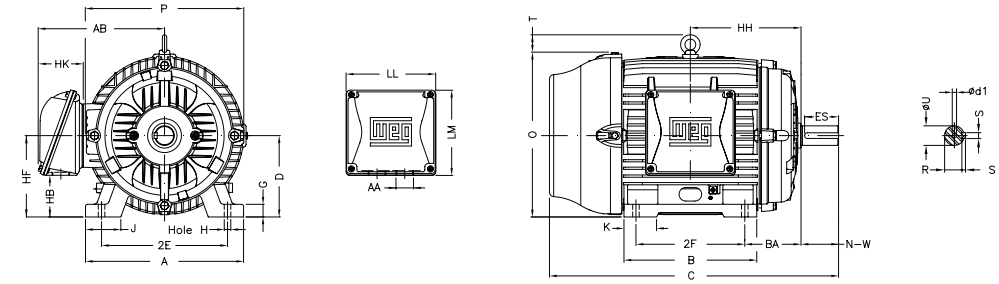
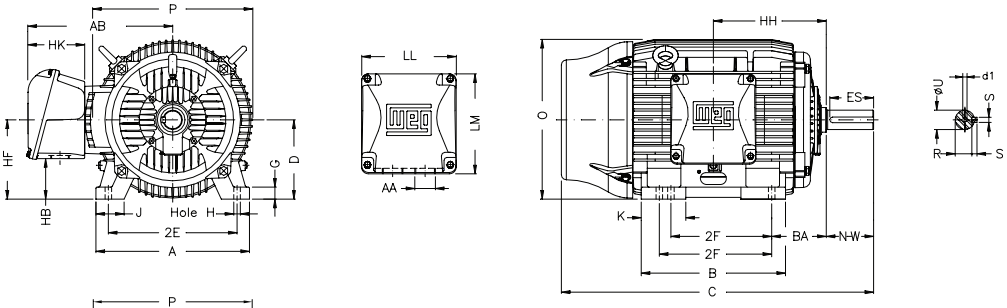
Frames 143T to 184T



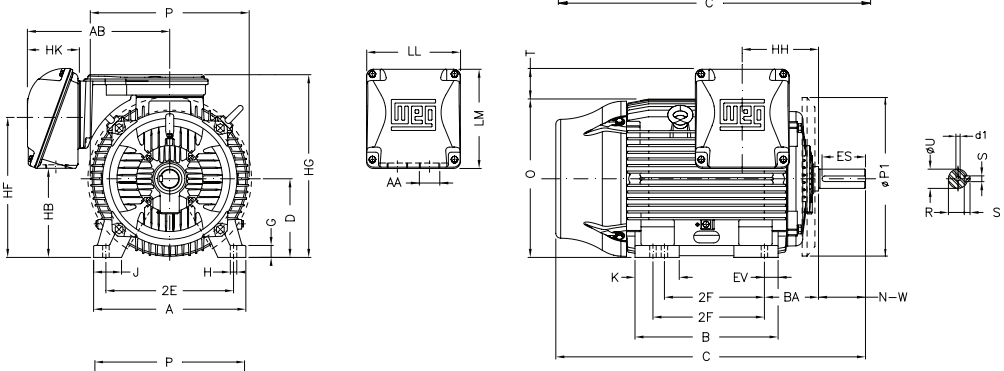
Frames 213T to 326T



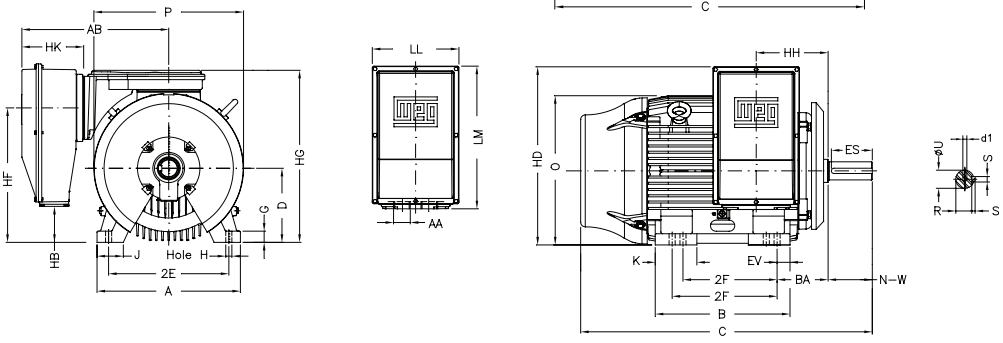
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T



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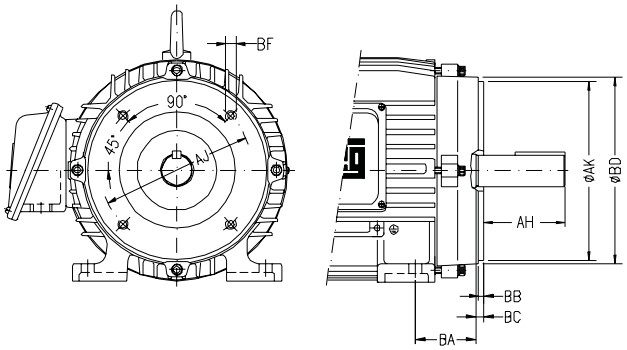
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
182/4T	7.500	5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
213/5T	8.500	7.000		3.500	9.764	8.858	19.517	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
254/6T	10.000	10.000	0.531	4.250	12.126	11.732	24.945	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6TS	11.000	11.000		4.750	13.780	13.071	26.557	7.000	1.023	3.110	14.067	2.874	14.173		0.375	1.406	2.480	3.250	1.625
284/6T							27.929								0.500	1.594	3.149	4.622	1.875
324/6TS	12.500	12.000	0.657	5.250	15.157	14.567	29.616	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.594	2.756	3.750	1.875
324/6T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260 / 12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.957	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244 / 13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500 / 16.500		7.500	21.929	20.315	41.200	11.000	1.630		22.795	5.866	23.583	4.620	0.625	2.021	3.000	4.750	2.375
444/5T							44.950								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500 / 20.000				23.897	44.951		1.654						0.625	2.021	3.000	4.750	2.375
445/7T							48.701								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000 / 25.000				31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000 / 25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
504/5TS	20.000	16.000 / 18.000	1.250	8.500	24.724	24.449	48.215	12.500	2.146	4.724	25.425	7.228		4.880	0.625	2.021	3.000	4.750	2.375
504/5T							54.095								0.875	3.134	8.661	10.630	3.625
586/7TS	23.000	22.000 / 25.000	1.181	10.000	29.528	29.921	55.027	14.500	2.492	5.512	28.985	9.055	28.977	5.590	0.625	2.021	3.000	4.750	2.375
586/7T							61.902								1.000	3.312	8.661	11.625	3.875
588/9TS		28.000 / 32.000				37.980	62.506					12.795		8.464	0.625	2.021	3.000	4.750	2.375
588/9T							69.381								1.000	3.312	8.661	11.625	3.875

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143/5T	6.181	1.728	3.500	-	4.750	2.638	4.527	4.094	NPT3/4"	A 4	6205	6204
182/4T	7.559	2.236	4.500		5.500	3.110	5.512	5.236	NPT1"		6207	6206
213/5T	8.583	3.006	5.250		7.000						6308	6207
254/6T	10.394	3.061	6.565		9.250	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
284/6TS	10.984	3.535	7.000		10.250						6311 C3	6211 C3
284/6T	10.984	3.535	7.000									
324/6TS	12.480	4.811	8.708		11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324/6T	12.480	4.811	8.708									
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213						6316 C3	
404/5T												
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040		UNC 3/4"-10	6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244			6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
504/5TS	20.670	15.275	24.291	29.409	10.394	6.968	14.646	15.040			6314 C3	6314 C3
504/5T											6319 C3	6316 C3
586/7TS	23.977	17.322	26.182	33.346	13.386	8.464	15.906	17.244			6314 C3	6314 C3
586/7T										UNC 7/8"-9	6322 C3	6319 C3
588/9TS	27.600	6.063				12.519 (side mounted) / 13.977(top mounted)	17.441	28.740		UNC 3/4"-10	6314 C3	6314 C3
588/9T										UNC 7/8"-9	6322 C3	6319 C3

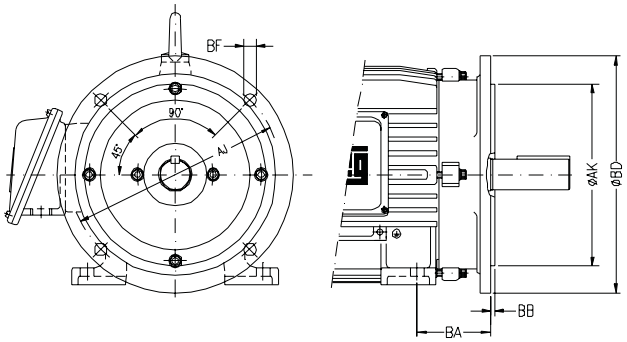
W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143/5TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2.125
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.750
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500
588/9TC									11.375
588/9TSC									4.500



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



W21X Explosion Proof NEMA Premium Motors
TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Internal Oil/Lip Seal
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T and all 2 pole motors
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5T and up.
- NEMA design “B”
- Service Factor: 1.15
- Continuous duty (S1)
- Thermostats (N/C 1 per phase/3 in series)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 202P
- Color: RAL 5009 - Blue
- Brass drain/breather plug from frame 254T and up
- Regreasable bearings, positive pressure lubrication system (frames 254T and up)
- 2RS bearings from frame 143T to 215T

TEMP CODE T3C
CSA / UL: Class I, Div 1 - Groups C and D
CSA: Class II, Div 1 - Groups F and G
CSA: Class I, Zone 1, IIB
TEMP CODE T4 with a maximum SF 1.15, not as Inverter Duty, maximum ambient temperature of 40°C.

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143T - 215T	All	20:1	1000:1	Any
254T - 326T	All	6:1*		
364T - 587T	All	2:1*		
143T - 505T	All	1000:1**		WEG

* Other options available, please call for details
** Can only be achieved by a WEG VFD running in Sensorless Vector
See page 7.6 for details

Optional Features

- Metric Frames available (Division I - non-ATEX)
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermistors
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Insulated bearings

Explosion Proof NEMA Premium Motors

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
1	3600	143/5T	$813	$1,054	$1,065	HX000X02NPW21X	1.41	1.13	81.5	61.7	13.752	0.875
	1800	143/5T	$815	$1,056	$1,067	HX000X04NPW21X	1.43	1.14	85.5	61.7	13.752	0.875
	1200	143/5T	$964	$1,206	$1,218	HX000X06NPW21X	1.54	1.23	82.5	52.9	13.752	0.875
	900	182/4T	$1,522	$1,851	$1,870	HX000X08NPW21X	2.30	1.84	78.5	112	15.862	1.125
1.5	3600	143/5T	$898	$1,140	$1,151	HX001X02NPW21X	2.05	1.64	84.0	61.7	13.752	0.875
	1800	143/5T	$865	$1,107	$1,118	HX001X04NPW21X	2.05	1.64	86.5	70.5	13.752	0.875
	1200	182/4T	$1,190	$1,520	$1,535	HX001X06NPW21X	2.33	1.86	87.5	117.5	15.862	1.125
	900	182/4T	$1,674	$2,003	$2,023	HX001X08NPW21X	2.70	2.16	82.5	128	15.862	1.125
2	3600	143/5T	$947	$1,188	$1,200	HX002X02NPW21X	2.69	2.15	85.5	66.1	13.752	0.875
	1800	143/5T	$887	$1,129	$1,140	HX002X04NPW21X	2.73	2.18	86.5	72.8	13.752	0.875
	1200	182/4T	$1,254	$1,583	$1,599	HX002X06NPW21X	3.13	2.50	88.5	128.7	15.862	1.125
	900	213/5T	$2,115	$2,510	$2,535	HX002X08NPW21X	3.45	2.76	84.0	165	19.450	1.375
3	3600	182/4T	$1,078	$1,408	$1,476	HX003X02NPW21X	3.80	3.04	86.5	90.4	15.862	1.125
	1800	182/4T	$1,067	$1,397	$1,411	HX003X04NPW21X	3.91	3.13	89.5	115	15.862	1.125
	1200	213/5T	$1,565	$1,972	$2,100	HX003X06NPW21X	4.41	3.53	89.5	165	19.450	1.375
	900	213/5T	$2,269	$2,664	$2,691	HX003X08NPW21X	4.44	3.55	87.0	201	19.450	1.375
5	3600	182/4T	$1,232	$1,562	$1,577	HX005X02NPW21X	6.10	4.88	88.5	106	15.862	1.125
	1800	182/4T	$1,171	$1,500	$1,515	HX005X04NPW21X	6.58	5.26	89.5	130	15.862	1.125
	1200	213/5T	$1,829	$2,225	$2,247	HX005X06NPW21X	6.83	5.46	89.5	218	19.450	1.375
	900	254T	$2,767	$3,211	$3,243	HX005X08NPW21X	7.93	6.34	87.5	313	23.175	1.625
7.5	3600	213/5T	$1,588	$1,983	$2,003	HX007X02NPW21X	8.98	7.18	89.5	190	19.450	1.375
	1800	213/5T	$1,717	$2,113	$2,134	HX007X04NPW21X	9.41	7.53	91.7	152	19.450	1.375
	1200	254T	$2,203	$2,774	$2,802	HX007X06NPW21X	9.73	7.78	91.0	309	23.175	1.625
	900	256T	$3,213	$3,784	$3,822	HX007X08NPW21X	11.6	9.28	87.5	353	24.923	1.625
10	3600	213/5T	$1,871	$2,267	$2,289	HX010X02NPW21X	12.0	9.60	90.2	201	19.450	1.375
	1800	L215T	$1,990	$2,385	$2,409	HX010X04NPW21X	12.8	10.2	91.7	207	20.631	1.375
	1200	256T	$2,706	$3,277	$3,310	HX010X06NPW21X	13.3	10.6	91.0	364	24.923	1.625
	900	284T	$4,269	$4,906	$4,955	HX010X08NPW21X	13.3	10.6	91.0	467	26.407	1.875
15	3600	254T	$2,245	$2,816	$2,944	HX015X02NPW21X	16.9	13.5	91.7	317	23.175	1.625
	1800	254T	$2,341	$2,912	$3,040	HX015X04NPW21X	18.4	14.7	92.4	328	23.175	1.625
	1200	284T	$3,481	$4,118	$4,159	HX015X06NPW21X	17.5	14.0	91.7	463	26.407	1.875
	900	286T	$5,060	$5,697	$5,754	HX015X08NPW21X	19.0	15.2	91.0	507	27.905	1.875
20	3600	256T	$2,805	$3,394	$3,428	HX020X02NPW21X	23.1	18.5	91.7	357	24.923	1.625
	1800	256T	$2,803	$3,392	$3,502	HX020X04NPW21X	25.0	20.0	93.0	364	24.923	1.625
	1200	286T	$4,138	$4,775	$4,822	HX020X06NPW21X	24.3	19.4	91.7	500	27.905	1.875
	900	324T	$6,171	$6,924	$6,993	HX020X08NPW21X	27.5	22.0	92.4	606	29.602	2.125
25	3600	284TS	$3,625	$4,282	$4,324	HX025X02NPW21X	28.6	22.9	92.4	452	25.033	1.625
	1800	284T	$3,553	$4,190	$4,232	HX025X04NPW21X	29.9	23.9	93.6	472	26.407	1.875
	1200	324T	$4,889	$5,642	$5,698	HX025X06NPW21X	30.4	24.3	93.0	639	29.602	2.125
	900	326T	$6,980	$7,733	$7,810	HX025X08NPW21X	35.4	28.3	92.4	672	31.106	2.125
30	3600	286TS	$4,076	$4,713	$4,760	HX030X02NPW21X	33.8	27.0	93.0	529	26.531	1.625
	1800	286T	$3,988	$4,625	$4,814	HX030X04NPW21X	36.0	28.8	93.6	511	27.905	1.875
	1200	326T	$5,911	$6,664	$6,730	HX030X06NPW21X	36.8	29.4	93.0	694	31.106	2.125
	900	364/5T	$12,116	$13,321	$13,454	HX030X08NP	38.5	30.8	93.0	910	33.701	2.375
40	3600	324TS	$5,354	$6,107	$6,168	HX040X02NPW21X	45.8	36.6	93.6	639	28.102	1.875
	1800	324T	$5,175	$5,928	$5,987	HX040X04NPW21X	48.3	38.6	94.1	650	29.602	2.125
	1200	364/5T	$9,129	$10,333	$10,436	HX040X06NP	47.1	37.7	94.1	1010	33.701	2.375
	900	364/5T	$12,245	$13,450	$13,584	HX040X08NP	52.3	41.8	93.6	1058	33.701	2.375
50	3600	326TS	$6,575	$7,328	$7,402	HX050X02NPW21X	55.5	44.4	94.1	728	29.606	1.875
	1800	326T	$6,122	$6,874	$7,136	HX050X04NPW21X	60.6	48.5	94.5	705	31.106	2.125
	1200	364/5T	$10,071	$11,678	$11,943	HX050X06NP	58.1	46.5	94.1	1036	33.701	2.375
	900	404/5T	$15,609	$16,814	$16,982	HX050X08NP	68.0	54.4	93.6	1257	38.074	2.875
60	3600	364/5TS	$9,636	$10,841	$10,949	HX060X02NP	68.3	54.6	94.1	1016	31.575	1.875
	1800	364/5T	$9,772	$10,976	$11,086	HX060X04NP	68.3	54.6	95.0	1014	33.701	2.375
	1200	404/5T	$13,007	$14,211	$14,353	HX060X06NP	70.4	56.3	94.5	1213	38.074	2.875
	900	404/5T	$15,926	$17,130	$17,301	HX060X08NP	75.9	60.7	93.0	1279	38.074	2.875
75	3600	364/5TS	$12,562	$14,169	$14,452	HX075X02NP	82.4	65.9	94.1	1025	31.575	1.875
	1800	364/5T	$11,415	$12,620	$12,746	HX075X04NP	83.3	66.6	95.4	937	33.701	2.375
	1200	404/5T	$14,515	$15,719	$15,876	HX075X06NP	87.0	69.6	94.5	1257	38.074	2.875
	900	444/5T	$23,376	$25,312	$25,565	HX075X08NP	92.3	73.8	93.6	1911	43.797	3.375
100	3600	404/5TS	$16,360	$17,565	$17,740	HX100X02NP	110	88.1	95.0	1206	35.074	2.125
	1800	404/5T	$14,517	$15,721	$15,878	HX100X04NP	113	90.4	95.4	1221	38.074	2.875
	1200	444/5T	$19,079	$21,015	$21,225	HX100X06NP	121	96.7	95.0	1896	43.797	3.375
	900	444/5T	$24,824	$26,760	$27,027	HX100X08NP	125	100	94.1	2052	43.797	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Explosion Proof NEMA Premium Motors

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
125	3600	444/5TS	$21,630	$23,566	$23,801	HX125X02NP	138	110	95.0	1940	40.047	2.375
	1800	444/5T	$20,083	$22,019	$22,239	HX125X04NP	143	114	95.4	2026	43.797	3.375
	1200	444/5T	$25,499	$27,980	$28,540	HX125X06NP	150	120	95.0	2293	43.797	3.375
	900	447T	$32,221	$34,157	$34,499	HX125X08NP447T	154	123	94.5	2337	47.339	3.375
	900	504/5T	$32,221	$34,265	$34,607	HX125X08NP	154	123	94.5	2337	49.445	3.625
150	3600	444/5TS	$25,097	$27,033	$27,303	HX150X02NP	161	129	95.4	1984	40.047	2.375
	1800	444/5T	$22,761	$24,697	$24,944	HX150X04NP	170	136	95.8	2094	43.797	3.375
	1200	447T	$29,008	$30,943	$31,253	HX150X06NP447T	174	139	95.8	2540	47.339	3.375
	1200	504/5T	$29,008	$31,051	$31,362	HX150X06NP	174	139	95.8	2540	49.445	3.625
	900	447T	$37,478	$39,414	$39,808	HX150X08NP447T	179	143	94.5	2646	47.339	3.375
	900	504/5T	$37,478	$39,521	$39,917	HX150X08NP	179	143	94.5	2646	49.445	3.625
200	3600	447TS	$33,725	$35,660	$36,017	HX200X02NP447TS	221	177	95.8	2491	45.589	2.375
	3600	504/5TS	$33,725	$35,768	$36,126	HX200X02NP	221	177	95.8	2491	46.875	2.875
	1800	447T	$28,726	$30,662	$30,968	HX200X04NP447T	230	184	96.2	2425	47.339	3.375
	1800	504/5T	$28,726	$30,769	$31,077	HX200X04NP	230	184	96.2	2425	49.445	3.625
	1200	447T	$34,090	$36,026	$36,386	HX200X06NP447T	249	199	95.8	2615	47.339	3.375
	1200	504/5T	$34,090	$36,134	$36,495	HX200X06NP	249	199	95.8	2615	49.445	3.625
	900	449T	$56,671	$58,607	$59,193	HX200X08NP449T	283	226	95.0	3580	54.996	3.375
	900	586/7T	$60,304	P.O.A	P.O.A	HX200X08NP	261	209	95.0	4167	61.389	3.875
250	3600	447TS	$35,516	$37,452	$37,827	HX250X02NP447TS	269	215	95.8	2491	45.589	2.375
	3600	504/5TS	$35,516	$37,560	$37,935	HX250X02NP	269	215	95.8	2491	46.875	2.875
	1800	447T	$34,183	$36,226	$36,588	HX250X04NP447T	284	227	96.2	2646	47.339	3.375
	1800	504/5T	$34,183	$36,226	$36,588	HX250X04NP	284	227	96.2	2646	49.445	3.625
	1200	449T	$52,902	$54,838	$55,387	HX250X06NP449T	299	239	95.8	3188	54.996	3.375
	1200	586/7T	$61,635	P.O.A	P.O.A	HX250X06NP	303	242	95.8	3858	61.389	3.875
	900	586/7T	$66,408	P.O.A	P.O.A	HX250X08NP	316	253	95.4	4409	61.389	3.875
300	3600	449TS	$51,853	$53,789	$54,327	HX300X02NP449TS	320	256	95.8	3307	51.246	2.375
	3600	586/7TS	$60,177	P.O.A	P.O.A	HX300X02NP	328	262	95.8	4409	54.514	2.375
	1800	449T	$45,150	$47,086	$47,557	HX300X04NP449T	334	267	96.2	3086	54.996	3.375
	1800	586/7T	$52,208	P.O.A	P.O.A	HX300X04NP	338	270	96.2	4078	61.389	3.875
	1200	449T	$55,217	$57,153	$57,724	HX300X06NP449T	351	281	95.8	3197	54.996	3.375
	1200	586/7T	$63,767	P.O.A	P.O.A	HX300X06NP	351	281	95.8	4189	61.389	3.875
	900	586/7T	$77,576	P.O.A	P.O.A	HX300X08NP	376	301	95.4	4817	61.389	3.875
350	3600	449TS	$59,964	$61,900	$62,519	HX350X02NP449TS	379	303	95.8	3638	51.246	2.375
	3600	586/7TS	$69,224	P.O.A	P.O.A	HX350X02NP	388	310	95.8	4409	54.514	2.375
	1800	449T	$49,181	$51,117	$51,628	HX350X04NP449T	390	312	96.2	3417	54.996	3.375
	1800	586/7T	$56,791	P.O.A	P.O.A	HX350X04NP	395	316	96.2	4233	61.389	3.875
	1200	586/7T	$73,599	P.O.A	P.O.A	HX350X06NP	421	337	95.8	4519	61.389	3.875
	900	586/7T	$77,576	P.O.A	P.O.A	HX350X08NP	439	351	95.4	4894	61.389	3.875
400	1800	586/7T	$64,197	P.O.A	P.O.A	HX400X04NP	460	368	96.2	4365	61.389	3.875
	1200	586/7T	$84,943	P.O.A	P.O.A	HX400X06NP	479	383	95.8	4982	61.389	3.875
450	1800	586/7T	$68,520	P.O.A	P.O.A	HX450X04NP	501	401	96.2	4586	61.389	3.875
500	1800	586/7T	$74,457	P.O.A	P.O.A	HX500X04NP	568	454	96.2	4828	61.389	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Explosion Proof NEMA Premium Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3495	143/5T	2.98	1.49	1.19	9.0	300%	400%	40	61.7	68	1.15	75.5	77.0	77.0	0.65	0.76	0.82
		1760	143/5T	2.86	1.43	1.14	8.6	290%	370%	18	61.7	51	1.15	80.0	82.5	85.5	0.57	0.70	0.77
		1150	143/5T	3.26	1.63	1.30	6.2	260%	280%	28	52.9	50	1.15	77.0	82.0	82.5	0.61	0.63	0.70
		875	182/4T	4.80	2.40	1.92	6.0	300%	350%	22	112	50	1.15	74.0	75.5	75.5	0.32	0.42	0.52
1.5	1.1	3500	143/5T	4.10	2.05	1.64	9.2	300%	400%	20	61.7	68	1.15	78.5	82.5	84.0	0.62	0.73	0.80
		1760	143/5T	4.10	2.05	1.64	8.9	270%	350%	14	70.5	51	1.15	81.5	85.5	86.5	0.58	0.70	0.78
		1165	182/4T	4.65	2.32	1.86	6.6	230%	330%	35	1175	52	1.15	84.5	86.5	87.5	0.47	0.59	0.68
		860	182/4T	5.68	2.84	2.27	6.2	240%	260%	17	128	50	1.15	77.0	78.5	78.5	0.42	0.54	0.62
2	1.5	3495	143/5T	5.38	2.69	2.15	9.4	350%	400%	15	66.1	68	1.15	80.0	84.0	85.5	0.64	0.76	0.82
		1750	143/5T	5.44	2.72	2.18	8.9	250%	320%	11	72.8	51	1.15	84.0	85.5	86.5	0.60	0.73	0.80
		1165	182/4T	6.26	3.13	2.50	7.0	260%	330%	35	129	52	1.15	84.5	86.5	88.5	0.47	0.58	0.68
		875	213/5T	6.90	3.45	2.76	7.0	230%	280%	35	198	52	1.15	80.0	82.5	84.0	0.45	0.57	0.65
3	2.2	3510	182/4T	7.52	3.76	3.01	8.4	250%	400%	30	90.4	69	1.15	82.5	85.5	86.5	0.73	0.81	0.85
		1760	182/4T	7.82	3.91	3.13	8.0	250%	320%	28	115	56	1.15	87.5	88.5	89.5	0.59	0.71	0.79
		1175	213/5T	8.82	4.41	3.53	7.0	220%	250%	58	203	55	1.15	86.5	88.5	89.5	0.50	0.62	0.70
		865	213/5T	8.72	4.36	3.49	7.1	210%	240%	32	201	52	1.15	84.0	85.5	85.5	0.54	0.66	0.74
5	3.7	3490	182/4T	12.2	6.10	4.88	7.5	250%	380%	26	106	69	1.15	85.5	87.5	88.5	0.70	0.81	0.86
		1750	182/4T	13.1	6.57	5.26	7.1	210%	330%	17	130	56	1.15	86.5	88.5	89.5	0.59	0.71	0.79
		1170	213/5T	13.7	6.83	5.46	6.8	170%	260%	57	205	55	1.15	88.5	89.5	89.5	0.58	0.70	0.76
		880	254T	15.9	7.93	6.34	5.3	210%	270%	21	313	54	1.15	84.0	86.5	87.5	0.46	0.58	0.67
7.5	5.5	3525	213/5T	17.1	8.57	6.86	7.0	220%	300%	23	190	72	1.15	85.5	88.5	89.5	0.78	0.87	0.90
		1765	213/5T	18.8	9.41	7.53	6.7	240%	280%	12	207	58	1.15	90.2	91.0	91.7	0.60	0.73	0.80
		1175	254T	19.5	9.73	7.78	7.0	270%	320%	25	309	59	1.15	88.5	90.2	91.0	0.58	0.71	0.78
		880	256T	23.2	11.6	9.28	5.3	210%	280%	23	353	54	1.15	86.5	87.5	87.5	0.48	0.60	0.68
10	7.5	3515	213/5T	23.2	11.6	9.28	6.9	210%	280%	15	201	72	1.15	89.5	90.2	90.2	0.81	0.88	0.90
		1765	L215T	25.4	12.7	10.2	6.5	210%	300%	15	229	58	1.15	90.2	91.0	91.7	0.62	0.75	0.81
		1175	256T	26.6	13.3	10.6	7.2	270%	310%	26	364	59	1.15	89.5	90.2	91.0	0.60	0.70	0.78
		884	284T	26.8	13.4	10.7	6.0	250%	240%	30	467	54	1.15	91.0	91.7	91.0	0.62	0.72	0.77
15	11	3540	254T	34.8	17.4	13.9	6.8	200%	270%	31	317	75	1.15	90.0	90.5	91.0	0.84	0.83	0.87
		1770	254T	36.8	18.4	14.7	7.3	300%	300%	26	328	69	1.15	90.2	91.7	92.4	0.65	0.75	0.81
		1180	284T	35.0	17.5	14.0	7.2	250%	260%	25	463	59	1.15	91.0	91.7	91.7	0.74	0.83	0.86
		880	286T	38.0	19.0	15.2	6.1	240%	230%	37	507	54	1.15	91.0	91.7	91.0	0.66	0.76	0.80
20	15	3530	256T	46.4	23.2	18.6	6.2	200%	250%	26	357	75	1.15	90.2	91.0	91.7	0.79	0.86	0.89
		1770	256T	50.0	25.0	20.0	7.5	300%	300%	20	364	69	1.15	91.7	92.4	93.0	0.63	0.75	0.81
		1180	286T	48.4	24.2	19.4	7.2	250%	270%	22	500	59	1.15	91.7	91.7	91.7	0.70	0.80	0.85
		880	324T	55.0	27.5	22.0	5.3	230%	230%	25	606	56	1.15	91.7	92.4	92.4	0.56	0.67	0.74
25	18.5	3555	284TS	57.2	28.6	22.9	9.0	280%	330%	58	452	75	1.15	91.7	92.4	92.4	0.78	0.85	0.88
		1775	284T	59.8	29.9	23.9	8.2	320%	320%	20	472	68	1.15	92.4	93.6	93.6	0.67	0.78	0.83
		1180	324T	60.8	30.4	24.3	6.4	230%	260%	25	639	62	1.15	92.4	93.0	93.0	0.65	0.76	0.82
		880	326T	70.8	35.4	28.3	5.1	240%	240%	20	672	56	1.15	91.0	92.4	92.4	0.51	0.63	0.71
30	22	3545	286TS	67.4	33.7	27.0	7.7	260%	300%	14	529	75	1.15	92.4	93.0	93.0	0.78	0.86	0.88
		1775	286T	72.0	36.0	28.8	7.9	350%	350%	17	511	68	1.15	93.0	93.6	93.6	0.66	0.77	0.82
		1180	326T	73.4	36.7	29.4	7.1	240%	270%	25	694	62	1.15	92.4	93.0	93.0	0.63	0.75	0.81
		885	364/5T	77.0	38.5	30.8	5.7	220%	220%	14	910	62	1.15	92.4	93.0	93.0	0.64	0.73	0.77
40	30	3555	324TS	91.5	45.8	36.6	6.6	270%	270%	43	516	81	1.15	92.4	93.6	93.6	0.80	0.86	0.88
		1780	324T	96.4	48.2	38.6	7.7	270%	300%	19	650	71	1.15	93.0	94.1	94.1	0.66	0.77	0.83
		1185	364/5T	94.2	47.1	37.7	7.0	230%	230%	24	1010	65	1.15	93.6	94.1	94.1	0.72	0.80	0.85
		885	364/5T	104	52.2	41.8	5.2	220%	220%	25	1058	62	1.15	93.0	93.6	93.6	0.64	0.73	0.77
50	37	3560	326TS	111	55.5	44.4	7.2	260%	260%	33	728	81	1.15	92.4	93.6	94.1	0.82	0.88	0.89
		1775	326T	121	60.6	48.5	7.3	260%	280%	20	705	71	1.15	93.6	94.5	94.5	0.65	0.76	0.81
		1185	364/5T	116	58.1	46.5	7.4	260%	280%	20	1036	65	1.15	93.6	94.1	94.1	0.71	0.81	0.85
		885	404/5T	136	68.0	54.4	7.3	220%	210%	12	1257	62	1.15	92.4	93.0	93.6	0.67	0.73	0.73
60	45	3550	364/5TS	137	68.6	54.9	6.4	200%	250%	60	1016	85	1.15	92.4	93.0	93.6	0.79	0.86	0.88
		1780	364/5T	137	68.3	54.6	7.0	250%	250%	20	1014	75	1.15	94.1	94.5	95.0	0.72	0.82	0.87
		1185	404/5T	141	70.3	56.2	6.9	250%	270%	29	1213	65	1.15	93.6	94.5	94.5	0.73	0.82	0.85
		885	404/5T	152	75.9	60.7	6.2	180%	220%	25	1279	62	1.15	92.4	93.0	93.0	0.65	0.75	0.80
75	55	3560	364/5TS	165	82.4	65.9	7.0	230%	260%	18	1025	85	1.15	93.0	94.1	94.1	0.81	0.87	0.89
		1780	364/5T	166	83.2	66.6	7.0	240%	290%	16	937	75	1.15	94.5	95.0	95.4	0.74	0.83	0.87
		1180	404/5T	174	87.0	69.6	7.7	250%	260%	15	1257	65	1.15	94.1	95.0	94.5	0.72	0.81	0.84
		890	444/5T	184	92.2	73.8	6.1	170%	210%	18	1911	64	1.15	93.6	94.1	93.6	0.66	0.76	0.80
100	75	3550	404/5TS	220	110	88.0	6.5	250%	280%	21	1206	85	1.15	93.6	95.0	95.0	0.85	0.89	0.90
		1780	404/5T	226	113	90.4	7.2	270%	300%	13	1221	75	1.15	94.5	95.0	95.4	0.72	0.82	0.87
		1190	444/5T	242	121	96.7	6.8	230%	260%	49	1896	70	1.15	94.1	95.0	95.0	0.66	0.76	0.82
		890	444/5T	250	125	100	6.1	170%	200%	16	2052	64	1.15	94.1	94.5	94.1	0.68	0.77	0.80
125	90	3570	444/5TS	264	132	106	6.6	200%	250%	22	1940	86	1.15	93.0	94.5	95.0	0.83	0.89	0.90
		1785	444/5T	284	142	114	6.4	200%	220%	18	2026	76	1.15	95.0	95.4	95.4	0.76	0.83	0.86
		1185	444/5T	300	150	120	7.4	230%	240%	41	2293	70	1.15	94.5	95.0	95.0	0.67	0.76	0.82
		890	447T	308	154	123	6.1	170%	200%	18	2337	66	1.15	94.5	95.0	94.5	0.66	0.76	0.80
		890	504/5T	308	154	123	6.1	170%	200%	18	2337	66	1.15	94.5	95.0	94.5	0.66	0.76	0.80

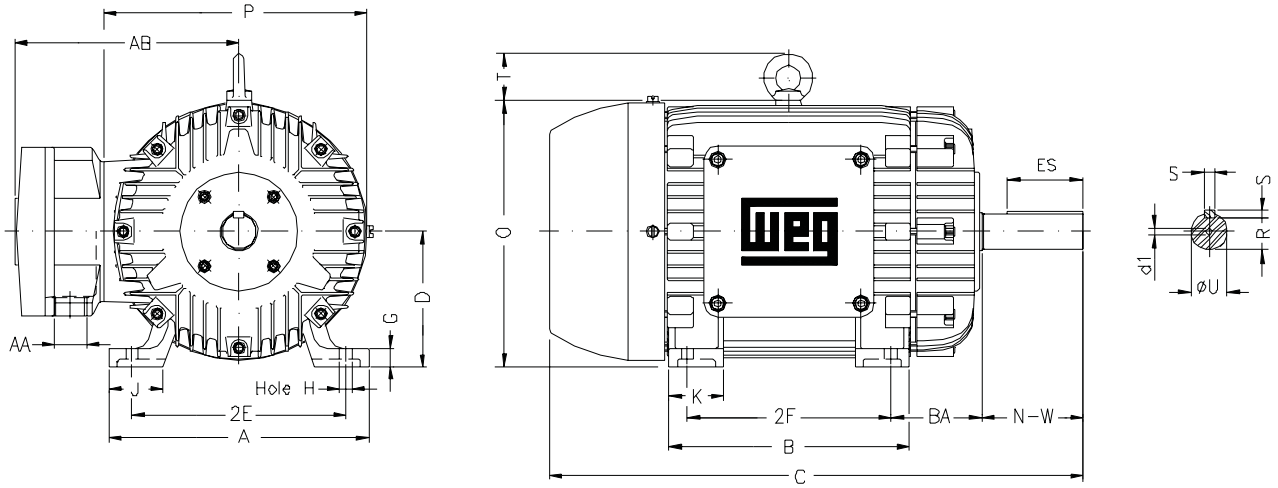
Explosion Proof NEMA Premium Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
150	110	3570	444/5TS	323	161	129	7.0	200%	250%	31	1984	86	1.15	93.6	95.0	95.4	0.85	0.89	0.90
		1780	444/5T	340	170	136	6.3	220%	250%	22	2094	76	1.15	95.0	95.8	95.8	0.72	0.81	0.85
		1185	447T	348	174	139	7.5	260%	260%	42	2540	73	1.15	95.0	95.8	95.8	0.68	0.78	0.83
		1185	504/5T	348	174	139	7.5	260%	260%	42	2540	73	1.15	95.0	95.8	95.8	0.68	0.78	0.83
		890	447T	358	179	143	6.0	170%	200%	18	2646	66	1.15	94.5	95.0	94.5	0.68	0.77	0.82
		890	504/5T	358	179	143	6.0	170%	200%	18	2646	66	1.15	94.5	95.0	94.5	0.68	0.77	0.82
200	150	3570	447TS	443	221	177	7.3	220%	260%	37	2491	87	1.15	94.1	95.4	95.8	0.84	0.88	0.89
		3570	504/5TS	443	221	177	7.3	220%	260%	37	2491	88	1.15	94.1	95.4	95.8	0.84	0.88	0.89
		1780	447T	460	230	184	6.9	230%	240%	25	2425	82	1.15	95.8	96.2	96.2	0.70	0.80	0.85
		1780	504/5T	460	230	184	6.9	230%	240%	25	2425	82	1.15	95.8	96.2	96.2	0.70	0.80	0.85
		1190	447T	498	249	199	7.8	270%	280%	14	2615	73	1.15	94.5	95.4	95.8	0.60	0.73	0.79
		1190	504/5T	498	249	199	7.8	270%	280%	14	2615	73	1.15	94.5	95.4	95.8	0.60	0.73	0.79
		890	449T	565	283	226	7.5	280%	300%	13	3580	66	1.15	92.4	94.5	95.0	0.52	0.63	0.70
		890	586/7T	523	261	209	5.7	120%	210%	65	4167	75	1.15	94.1	94.5	95.0	0.60	0.71	0.76
250	185	3570	447TS	538	269	215	8.0	240%	280%	18	2491	87	1.15	95.0	95.4	95.8	0.83	0.89	0.90
		3570	504/5TS	538	269	215	8.0	240%	280%	18	2491	88	1.15	95.0	95.4	95.8	0.83	0.89	0.90
		1780	447T	568	284	227	7.0	210%	230%	30	2646	82	1.15	95.4	96.2	96.2	0.72	0.81	0.85
		1780	504/5T	568	284	227	7.0	210%	230%	30	2646	77	1.15	95.4	96.2	96.2	0.72	0.81	0.85
		1190	449T	598	299	239	8.1	280%	300%	10	3188	70	1.15	95.0	95.4	95.8	0.64	0.76	0.81
		1190	586/7T	605	303	242	6.0	180%	210%	33	3858	77	1.15	93.6	95.4	95.8	0.67	0.75	0.80
		890	586/7T	633	316	253	5.8	100%	210%	26	4409	75	1.15	94.1	94.5	95.4	0.60	0.71	0.77
300	220	3575	449TS	640	320	256	8.4	280%	340%	15	3307	84	1.15	94.5	95.4	95.8	0.82	0.88	0.90
		3580	586/7TS	655	328	262	6.6	130%	220%	34	4409	85	1.15	94.5	95.4	95.8	0.86	0.87	0.88
		1785	449T	668	334	267	8.0	280%	290%	14	3086	80	1.15	95.4	95.8	96.2	0.74	0.83	0.86
		1790	586/7T	675	338	270	6.8	180%	210%	50	4078	83	1.15	95.0	95.8	96.2	0.78	0.84	0.85
		1190	449T	702	351	281	7.9	280%	300%	7	3197	70	1.15	95.0	95.4	95.8	0.66	0.77	0.82
		1190	586/7T	703	351	281	6.1	180%	210%	35	4189	77	1.15	93.6	95.4	95.8	0.68	0.75	0.82
		895	586/7T	752	376	301	6.2	140%	210%	24	4817	75	1.15	95.0	95.0	95.4	0.60	0.72	0.77
350	260	3575	449TS	758	379	303	8.7	280%	340%	14	3638	84	1.15	95.0	95.8	95.8	0.82	0.88	0.90
		3580	586/7TS	775	388	310	6.6	130%	220%	35	4409	85	1.15	94.5	95.4	95.8	0.86	0.87	0.88
		1780	449T	808	404	323	8.2	280%	290%	14	3417	80	1.15	95.4	95.8	96.2	0.70	0.80	0.84
		1790	586/7T	790	395	316	7.3	230%	230%	32	4233	83	1.15	95.0	95.8	96.2	0.77	0.84	0.86
		1190	586/7T	842	421	337	6.3	210%	210%	29	4519	77	1.15	95.4	95.8	95.8	0.67	0.77	0.81
		890	586/7T	878	439	351	5.9	110%	200%	25	4894	75	1.00	94.1	94.5	95.4	0.60	0.64	0.78
400	300	1790	586/7T	920	460	368	6.4	180%	200%	18	4365	83	1.15	95.4	96.2	96.2	0.80	0.84	0.85
		1190	586/7T	959	479	383	6.0	200%	200%	71	4982	77	1.15	93.6	95.0	95.8	0.70	0.78	0.82
450	330	1790	586/7T	1002	501	401	6.5	180%	200%	24	4586	83	1.15	95.8	96.2	96.2	0.81	0.85	0.86
		1190	586/7T	1080	540	432	6.0	150%	210%	34	5004	77	1.00	93.6	95.0	95.8	0.69	0.77	0.80
500	370	1790	586/7T	1136	568	454	6.3	210%	230%	25	4828	83	1.00	95.8	96.2	96.2	0.81	0.84	0.85

Explosion Proof NEMA Premium Motors

TEFC - Mechanical Data

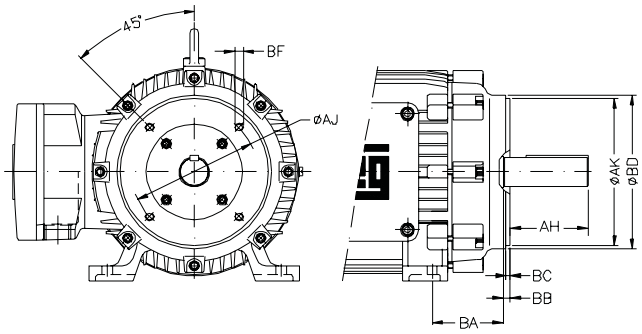


NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N-W	U				D.E.	N.D.E.
143/5T	5.500	4.000/5.000	0.344	2.250	6.457	5.157	13.752	3.500	0.429	1.496	1.654	7.000	7.000	1.677	0.187	0.771	1.575	2.250	0.875	6.811	NPT 0.75"	A4	6205-2RS	6204-2RS
145T		5.000				6.142																	6205-2RS	6204-2RS
182/4T	7.500	4.500/5.500	0.406	2.750	8.661	5.945	15.862	4.500	0.787	1.890	1.969	9.421	8.909	1.772	0.250	0.984	1.969	2.750	1.125	8.240			6307-2RS	6206-2RS
184T		5.500				6.969																	6307-2RS	6206-2RS
213/5T	8.500	5.500/7.000	0.409	3.500	9.764	8.898	19.450	5.250	0.877	2.037	3.058	11.156	10.709		0.313	1.203	2.480	3.375	1.375	9.252	NPT 1"		6308-2RS	6207-2RS
215T		7.000																			NPT 1"		6308-2RS	6207-2RS
L215T		7.000/8.171				10.088	20.631														NPT 1"		6308-2RS	6207-2RS
254T	10.000	8.252	0.531	4.250	12.126	10.000	23.175	6.250	0.817	2.520	2.559	12.352	12.224	2.087	0.375	1.416	2.756	4.000	1.625	11.063	NPT 1.5"		6309-C3	6309-C3
256T		10.000				11.732	24.923									1.406							6309-C3	6309-C3
284T	11.000	9.500		4.750	13.780	11.575	26.407	7.000	1.024	3.150	2.953	14.362	14.094	2.441	0.500	1.594	3.149	4.622	1.875	11.850			6311-C3	6311-C3
284TS							25.033								0.375	1.406	2.480	3.250	1.625				6311-C3	6311-C3
286T		11.000				13.071	27.905								0.500	1.594	3.149	4.622	1.875				6311-C3	6311-C3
286TS							26.531								0.375	1.406	2.480	3.250	1.625				6311-C3	6311-C3
324T	12.500	10.500	0.657	5.250	15.157		29.602	8.000	1.307	3.228	3.346	15.992	15.697	2.795	0.500	1.844	3.937	5.250	2.125	12.961	NPT 2"		6312-C3	6312-C3
324TS							28.102									1.594	2.756	3.750	1.875				6312-C3	6312-C3
326T		12.000				14.567	31.106									1.844	3.937	5.250	2.125				6312-C3	6312-C3
326TS							29.606									1.594	2.756	3.750	1.875				6312-C3	6312-C3
364/5T	14.000	11.250/12.250		5.875	17.165	15.394	33.701	9.000	1.480	3.150	4.134	18.898	18.583		0.625	2.019	4.330	5.874	2.375	16.654	NPT 3"		6314-C3	6314-C3
364/5TS							31.575								0.500	1.591	1.968	3.748	1.875				6314-C3	6314-C3
404/5T	16.000	12.250/13.752	0.807	6.625	19.921	17.520	38.074	10.000	1.812	3.937	5.433	19.843			0.750	2.449	5.512	7.250	2.875				6217-C3	6314-C3
404/5TS							35.074								0.500	1.842	2.756	4.250	2.125				6314-C3	6314-C3
444/5T	18.000	14.500/16.500		7.500	21.929	20.079	43.797	11.000	1.630		5.591	23.622	24.016	3.543	0.875	2.880	7.087	8.500	3.375	21.732	2xNPT 3"	UNC 0.75"	6219-C3	6316-C3
444/5TS							40.047								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
447T		20.000				23.640	47.339								0.875	2.880	7.087	8.500	3.375	20.984			6319-C3	6316-C3
447TS							43.589								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
449T		25.000				32.126	54.996				7.104				0.875	2.880	7.087	8.500	3.375				6322-C3	6319-C3
449TS							51.246								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
504/5T	20.000	16.000/18.000	1,250	8.500	24.724	21.969	49.445	12.500	2.146	4.724	5.984	25.197	24.212		0.875	3.134	8.661	10.630	3.625	21.850			6319-C3	6316-C3
504/5TS							46.875								0.625	2.021	3.000	4.750	2.375				6316-C3	6316-C3
586/7T	23.000	22.000/25.000	1,181	10.000	29.528	29.921	61.389	14.500	2.492	5.236	7.874	30.428	30.709	4.291	1.000	3.312	8.661	11.625	3.875	25.787		UNC 7/8"	6322-C3	6319-C3
586/7TS							54.514								0.625	2.021	3.000	4.750	2.375			UNC 0.75"	6314-C3	6314-C3

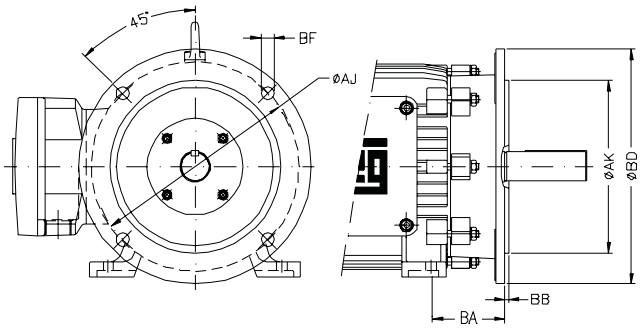
Explosion Proof NEMA Premium Motors

TEFC - Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143/5TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2,125
145TC									
182/4TC	2.750	7.250	8.500	8.875		UNC 0.5"x13	0.250		2,625
184TC									
213/5TC	3.500							0.250	3,125
215TC									
L215TC									
254TC	4.250								3,750
256TC									
284TC	4.750	9.000	10.500	11.031					4,375
284TSC									3,000
286TC									4,375
286TSC									3,000
324TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5,000
324TSC									3,500
326TC									5,000
326TSC									3,500
364/5TC	5.875			15.562	8				5,625
364/5TSC									3,500
404/5TC	6.625								7,000
404/5TSC									4,000
444/5TC	7.500	14.000	16.000	17.913					8,250
444/5TSC									4,500
447TC									8,250
447TSC									4,500
449TC									8,250
449TSC									4,500
504/5TC	8.500	14.500	16.500						10,375
504/5TSC									4,500
586/7TC	10.000								
586/7TSC	10.000								4,500



"D" FLANGE DIMENSIONS								
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	AH
					NUMBER	TAP SIZE		
143/5TD	2.250	10.000	9.000	11.000	4	0.551	0.203	2.125
145TD								
182/4TD	2.750							2.625
184TD								
213/5TD	3.500							3.125
215TD								
L215TD								
254TD	4.250	12.500	11.000	14.000		0.828		3.750
256TD								
284TD	4.750							4.375
284TSD								3.000
286TD								4.375
286TSD								3.000
324TD	5.250	16.000	14.000	18.000				5.000
324TSD								3.500
326TD								5.000
326TSD								3.500
364/5TD	5.875							5.625
364/5TSD								3.500
404/5TD	6.625	20.000	18.000	21.656	8			7.000
404/5TSD								4.000
444/5TD	7.500							8.250
444/5TSD								4.500
447TD								8.250
447TSD								4.500
449TD								8.250
449TSD								4.500
504/5TD	8.500			24.803				10.375
504/5TSD								4.500
586/7TD	10.000	30.000	28.000	32.000				11.375
586/7TSD								4.500



W01 Rolled Steel NEMA Premium Motors
ODP

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Open Drip Proof - ODP (IP21)
- Die cast aluminum squirrel cage rotor
- Bearings:
  - ZZ / Normal up to frame 213/5T
  - Z / C3 for frame 254/6T
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207N - Frame 143/5T
  - 207A - Frame 182/4T & 213/5T
  - 203A - Frame 254/6T
- Color: Munsell N1 - Flat Black
- All frames have dual mounting

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 254/6T	2 Pole	3:1	1000:1	Any
	4 Pole	5:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Thermostats, Thermistors, RTD’s (PT100)
- Drip cover (canopy) for shaft down applications
- NEMA C flange for all ratings
- Special paint
- Shaft grounding (Aegis or WEG)
- UL Listed fire pump duty
- No feet

W01 Rolled Steel NEMA Premium Motors

ODP - Purchasing & Electrical Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM					460V	575V				
1	3600	143/5T	$326	$417	DP000X02NPW01	1.38	1.10	80.0	25.4	11.181	0.875
	1800	143/5T	$328	$419	DP000X04NPW01	1.51	1.21	85.5	34.4	11.181	0.875
	1200	143/5T	$430	$521	DP000X06NPW01	1.65	1.32	82.5	35.3	11.181	0.875
1.5	3600	143/5T	$367	$457	DP001X02NPW01	1.85	1.48	84.0	29.3	11.181	0.875
	1800	143/5T	$367	$457	DP001X04NPW01	2.07	1.66	86.5	41.9	12.362	0.875
	1200	182/4T	$503	$616	DP001X06NPW01	2.25	1.80	86.5	56.0	13.976	1.125
2	3600	143/5T	$394	$485	DP002X02NPW01	2.42	1.94	85.5	36.8	11.969	0.875
	1800	143/5T	$380	$471	DP002X04NPW01	2.69	2.15	86.5	39.0	12.362	0.875
	1200	182/4T	$568	$682	DP002X06NPW01	2.95	2.36	87.5	66.1	14.764	1.125
3	3600	143/5T	$471	$562	DP003X02NPW01	3.59	2.87	85.5	39.9	12.362	0.875
	1800	182/4T	$419	$532	DP003X04NPW01	3.86	3.09	89.5	65.9	15.157	1.125
	1200	213/5T	$786	$922	DP003X06NPW01	4.16	3.33	88.5	98.3	16.575	1.375
5	3600	182/4T	$573	$686	DP005X02NPW01	6.10	4.88	86.5	58.7	14.764	1.125
	1800	182/4T	$539	$652	DP005X04NPW01	6.33	5.06	89.5	79.8	16.339	1.125
	1200	213/5T	$985	$1,121	DP005X06NPW01	6.74	5.39	89.5	118	16.969	1.375
7.5	3600	182/4T	$740	$854	DP007X02NPW01	8.67	6.94	88.5	69.9	15.157	1.125
	1800	213/5T	$725	$860	DP007X04NPW01	9.25	7.40	91.0	116	16.575	1.375
	1200	254/6T	$1,331	$1,535	DP007X06NPW01	10.2	8.16	90.2	187	20.472	1.625
10	3600	213/5T	$962	$1,098	DP010X02NPW01	12.0	9.60	89.5	117	16.969	1.375
	1800	213/5T	$883	$1,019	DP010X04NPW01	12.4	9.92	91.7	137	17.756	1.375
	1200	254/6T	$1,589	$1,793	DP010X06NPW01	13.9	11.1	91.7	209	20.472	1.625
15	3600	213/5T	$1,288	$1,424	DP015X02NPW01	17.2	13.8	90.2	131	17.756	1.375
	1800	254/6T	$1,195	$1,399	DP015X04NPW01	18.6	14.9	93.0	175	20.472	1.625
20	3600	254/6T	$1,485	$1,689	DP020X02NPW01	23.8	19.0	91.0	151	20.472	1.625
	1800	254/6T	$1,533	$1,737	DP020X04NPW01	25.0	20.0	93.0	198	20.472	1.625
25	3600	254/6T	$1,805	$2,008	DP025X02NPW01	29.1	23.3	91.7	174	20.472	1.625

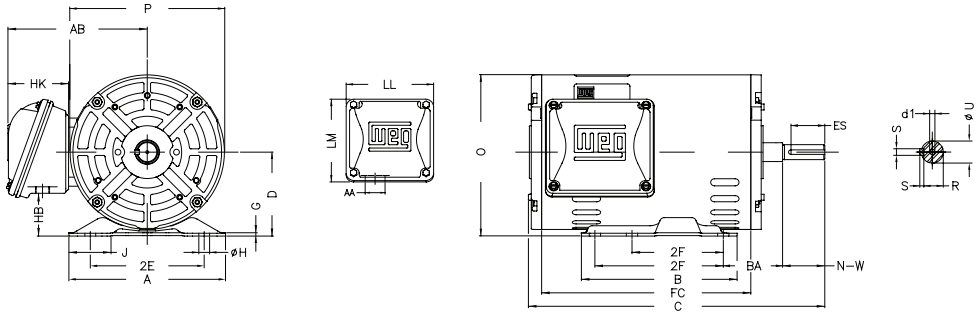
Flange: Replace 'DP' with 'CP' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
1	0.75	3510	143/5T	2.76	1.38	1.10	8.3	210%	330%	22	25.4	1.15	74.0	78.5	80.0	0.66	0.78	0.85
		1760	143/5T	3.02	1.51	1.21	8.0	290%	360%	22	34.4	1.15	81.5	84.0	85.5	0.51	0.65	0.73
		1150	143/5T	3.30	1.65	1.32	6.1	250%	300%	24	35.3	1.15	78.5	81.5	82.5	0.47	0.60	0.69
1.5	1.1	3510	143/5T	3.70	1.85	1.48	8.6	210%	330%	19	29.3	1.15	81.5	84.0	84.0	0.73	0.83	0.89
		1760	143/5T	4.14	2.07	1.66	8.7	280%	330%	15	41.9	1.15	84.0	86.5	86.5	0.56	0.69	0.77
		1165	182/4T	4.50	2.25	1.80	6.5	200%	310%	46	56.0	1.15	84.0	85.5	86.5	0.51	0.63	0.71
2	1.5	3510	143/5T	4.84	2.42	1.94	8.9	220%	330%	14	36.8	1.15	84.0	85.5	85.5	0.77	0.86	0.91
		1740	143/5T	5.38	2.69	2.15	7.7	260%	320%	17	39.0	1.15	85.5	86.5	86.5	0.61	0.74	0.81
		1165	182/4T	5.90	2.95	2.36	6.6	200%	300%	33	66.1	1.15	85.5	86.5	87.5	0.53	0.66	0.73
3	2.2	3480	143/5T	7.18	3.59	2.87	8.0	230%	300%	9	39.9	1.15	84.0	85.5	85.5	0.76	0.86	0.90
		1765	182/4T	7.72	3.86	3.09	8.4	220%	330%	15	65.9	1.15	87.5	88.5	89.5	0.60	0.73	0.80
		1175	213/5T	8.32	4.16	3.33	5.9	210%	260%	39	98.3	1.15	86.5	87.5	88.5	0.56	0.68	0.75
5	3.7	3510	182/4T	12.2	6.10	4.88	7.6	190%	300%	12	58.7	1.15	85.5	86.5	86.5	0.73	0.83	0.88
		1760	182/4T	12.7	6.33	5.06	7.2	200%	310%	12	79.8	1.15	88.5	88.5	89.5	0.63	0.76	0.82
		1175	213/5T	13.5	6.74	5.39	5.9	220%	250%	29	118	1.15	88.5	89.5	89.5	0.58	0.70	0.77
7.5	5.5	3500	182/4T	17.3	8.67	6.94	7.4	180%	290%	10	69.9	1.15	88.5	88.5	88.5	0.76	0.85	0.90
		1770	213/5T	18.5	9.25	7.40	7.3	240%	320%	13	116	1.15	89.5	90.2	91.0	0.65	0.77	0.82
		1175	254/6T	20.4	10.2	8.16	5.1	200%	230%	37	187	1.15	88.5	90.2	90.2	0.56	0.68	0.75
10	7.5	3535	213/5T	24.0	12.0	9.60	6.8	200%	280%	11	117	1.15	88.5	89.5	89.5	0.74	0.84	0.88
		1770	213/5T	24.8	12.4	9.92	7.0	250%	350%	14	137	1.15	90.2	91.0	91.7	0.64	0.77	0.83
		1180	254/6T	27.8	13.9	11.1	5.3	210%	230%	34	209	1.15	91.0	91.7	91.7	0.56	0.68	0.74
15	11	3535	213/5T	34.4	17.2	13.8	6.9	210%	280%	8	131	1.15	90.2	90.2	90.2	0.77	0.86	0.89
		1775	254/6T	37.2	18.6	14.9	6.7	240%	300%	17	175	1.15	91.7	92.4	93.0	0.62	0.73	0.80
20	15	3525	254/6T	47.6	23.8	19.0	6.0	180%	240%	13	151	1.15	90.2	91.0	91.0	0.76	0.83	0.87
		1770	254/6T	50.0	25.0	20.0	6.3	240%	290%	15	198	1.15	92.4	92.4	93.0	0.63	0.74	0.81
25	18.5	3530	254/6T	58.2	29.1	23.3	6.3	180%	290%	9	174	1.15	91.0	91.7	91.7	0.73	0.83	0.87

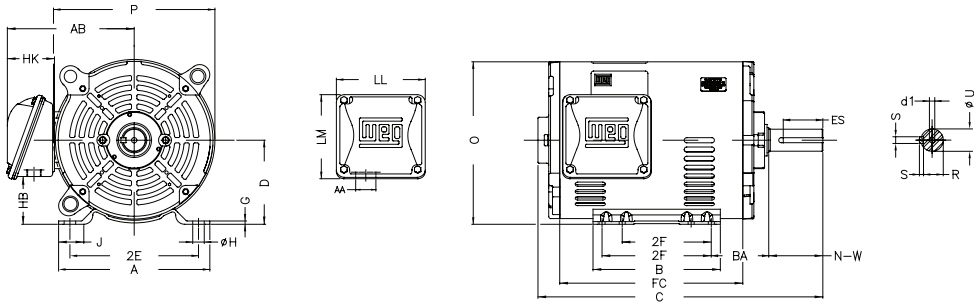
W01 Rolled Steel NEMA Premium Motors

ODP - Mechanical Data

Frame 143/5T



Frames 182/4T up to 254/6T



NEMA FRAME	MOUNTING					AB	D	HB	HK	Hole H	J	LL	LM	O	P	SHAFT END						BEARINGS	
	2E	2F	A	B	BA											d1	ES	N-W	R	S	U	D.E.	N.D.E.
143/5T	5.500	4.000/5.000	6.535	6.496	2.250	5.873	3.500	1.784	2.629	0.343	1.725	4.563	4.090	6.723	6.456	A 3.15	1.417	2.250	0.766	0.187	0.875	6205 ZZ	6203 ZZ
182/4T	7.500	4.500/5.500	8.661	6.299	2.750	6.696	4.500	2.784		0.406	1.299			8.557	8.114	A 4	1.969	2.750	0.984	0.250	1.125	6206 ZZ	6205 ZZ
213/5T	8.500	5.500/7.000	9.449	7.953	3.500	7.973	5.250	2.982	3.022		1.575	5.551	5.250	10.144	9.846		2.480	3.380	1.203	0.313	1.375	6208 ZZ	6206 ZZ
254/6T	10.000	8.252/10.000	11.417	11.417	4.250	9.448	6.250	3.631	3.645	0.530	1.693	6.299	6.017	12.010	11.558		2.756	4.000	1.406	0.375	1.625	6309 Z-C3	6208 Z-C3

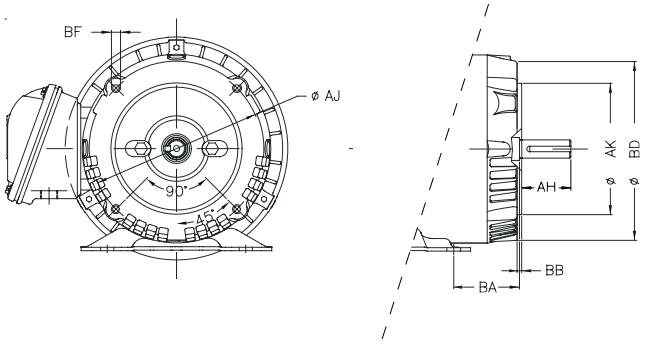
NEMA FRAME	OUTPUT		POLES	C	FC
	HP	kW			
143/5T	1	0.75	2	11.181	7.480
			4		
			6		
	1.5	1.1	2		
			4	12.362	8.661
182/4T			6	13.976	7.874
143/5T	2	1.5	2	11.969	8.268
			4	12.362	
182/4T			6	14.764	8.661
143/5T	3	2.2	2	12.362	
182/4T			4	15.157	9.055
213/5T			6	16.575	10.236
182/4T	5	3.7	2	14.764	8.661
			4	16.339	10.236
213/5T			6	16.969	10.630
182/4T	7.5	5.5	2	15.157	9.055
213/5T			4	16.575	10.236
254/6T			6	20.472	12.992
213/5T	10	7.5	2	16.969	10.630
			4	17.756	11.417
254/6T			6	20.472	12.992
213/5T	15	11	2	17.756	11.417
254/6T			4	20.472	12.992
	20	15	2		
			4		
	25	18.5	2		

W01 Rolled Steel NEMA Premium Motors

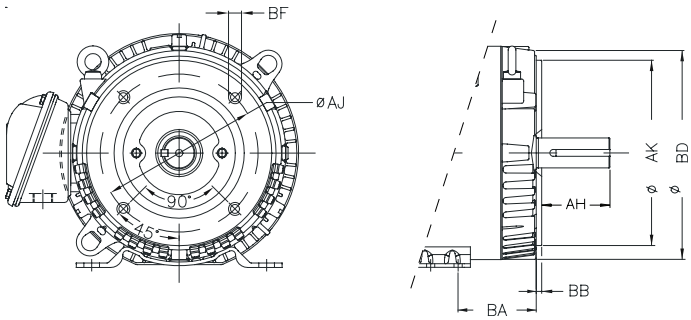
ODP - Mechanical Data

"C" Flange Dimensions							
Frame	BA	Flange					
		AJ	AK	BB	BD	BF	AH
143/5TC	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16	2.129
182/4TC	3.500	7.250	8.500	0.250	8.858	UNC 1/2"x13	2.620
213/5TC	4.309				9.401		3.129
254/6TC	4.750				11.084		3.750

Frame 143/5T



Frames 182/4T up to 254/6T



W40 NEMA Premium Motors
ODP

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Cast Iron Frames
- Cast Iron endshields and terminal box
- Degree of protection:
  - ODP (IP23)
  - WPII (IP24)
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T, all 2 pole motors
- 4140 for 404/5T shaft upwards in 4 and 6 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- NEMA design “B”
- Service Factor: 1.25 up to 150 HP, 1.15 for 200 HP and above
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Paint Plan: 203A
- Color: RAL 5009 (Blue)
- Paint: Synthetic Enamel alkyd resin base
- Stainless steel nameplate with laser etching
- Cooling system with finned rotor
- Regreasable bearings

NEMA Premium™

Frames 254T to 447/9T:
Safe Area
Option for Frames 5010/11 and up:
Class I, Div 2, Groups A,B,C & D
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
254T - 404/5T < 150HP	All	4:01	10:1	Any
404/5T - 444/5T ≥ 150HP	All	2:01		
5010/11 - L6808/09	All	10:01		
See page 7.6 for details				

Optional Features

- 50 Hz
- Special voltages
- NEMA C & D flanges
- Specially designed shaft
- Second shaft end
- Thermistors, Thermostats or RTD’s (PT100)
- Auxiliary terminal box
- Roller bearings
- Shaft grounding (Aegis or WEG)
- IEC metric frames (on request) for frames 160M to 280S/M
- F2 and F3 mount
- Drip cover
- UL Listed fire pump duty
- No feet

W40 NEMA Premium Motors

ODP - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
15	1800	254T	$1,406	$1,637	$1,670	DP015X04NP	18.6	14.9	93.0	254	20.669	1.625
	1200	284T	$2,618	$2,903	$2,962	DP015X06NP	17.8	14.2	91.7	400	23.386	1.875
20	3600	254T	$1,748	$1,979	$2,018	DP020X02NP	24.6	19.7	91.0	179	20.669	1.625
	1800	256T	$1,802	$2,033	$2,074	DP020X04NP	24.8	19.8	93.0	295	22.401	1.625
	1200	286T	$3,175	$3,460	$3,529	DP020X06NP	24.0	19.2	92.4	437	24.882	1.875
25	3600	256T	$2,122	$2,352	$2,400	DP025X02NP	29.8	23.8	91.7	243	22.401	1.625
	1800	284T	$1,983	$2,269	$2,314	DP025X04NP	29.9	23.9	93.6	342	23.386	1.875
	1200	324T	$3,332	$3,676	$3,750	DP025X06NP	30.4	24.3	93.0	509	26.181	2.125
30	3600	284TS	$2,583	$2,869	$2,926	DP030X02NP	34.8	27.8	92.4	333	22.000	1.625
	1800	286T	$2,386	$2,672	$2,725	DP030X04NP	35.4	28.3	94.1	419	24.882	1.875
	1200	326T	$3,685	$4,029	$4,109	DP030X06NP	36.0	28.8	93.6	630	27.667	2.125
40	3600	286TS	$3,111	$3,396	$3,464	DP040X02NP	47.1	37.7	93.0	417	23.504	1.625
	1800	324T	$3,045	$3,389	$3,457	DP040X04NP	48.3	38.6	94.1	529	26.181	2.125
	1200	364/5T	$5,515	$6,218	$6,343	DP040X06NPW40	47.1	37.7	94.1	813	29.65	2.375
50	3600	324TS	$3,654	$3,981	$4,061	DP050X02NP	59.1	47.3	93.6	496	24.685	1.875
	1800	326T	$3,437	$3,764	$3,839	DP050X04NP	59.9	47.9	94.5	573	27.667	2.125
	1200	364/5T	$5,753	$6,456	$6,585	DP050X06NPW40	58.8	47.0	94.1	948	29.65	2.375
60	3600	326TS	$4,321	$4,648	$4,741	DP060X02NP	71.0	56.8	93.6	582	26.181	1.875
	1800	364/5T	$4,586	$5,289	$5,395	DP060X04NPW40	69.9	55.9	95.0	825	29.65	2.375
	1200	404/5T	$6,863	$7,566	$7,717	DP060X06NPW40	70.3	56.2	94.5	1,007	34.020	2.875
75	3600	364/5TS	$6,033	$6,737	$6,871	DP075X02NPW40	81.5	65.2	94.1	695	27.52	1.875
	1800	364/5T	$5,513	$6,216	$6,341	DP075X04NPW40	83.5	66.8	95.0	825	29.65	2.375
	1200	404/5T	$7,007	$7,710	$7,864	DP075X06NPW40	85.9	68.7	94.5	1,188	34.020	2.875
100	3600	364/5TS	$8,376	$9,079	$9,261	DP100X02NPW40	111	88.8	94.5	825	27.52	1.875
	1800	404/5T	$7,064	$7,767	$7,922	DP100X04NPW40	113	90.4	95.4	1,052	34.020	2.875
	1200	444/5T	$12,768	$13,870	$14,147	DP100X06NPW40	125	100	95.0	1,635	38.108	3.375
125	3600	404/5TS	$10,191	$10,895	$11,112	DP125X02NPW40	136	109	94.5	986	31.020	2.125
	1800	404/5T	$8,767	$9,471	$9,660	DP125X04NPW40	136	109	95.4	1,144	34.020	2.875
	1200	444/5T	$13,429	$14,530	$14,821	DP125X06NPW40	158	126	95.0	1,914	38.108	3.375
150	3600	404/5TS	$13,312	$14,016	$14,296	DP150X02NPW40	163	130	94.5	1,246	31.020	2.125
	1800	444/5T	$12,267	$13,368	$13,635	DP150X04NPW40	166	133	95.8	1,433	38.108	3.375
	1200	444/5T	$14,295	$15,397	$15,705	DP150X06NPW40	183	146	95.4	2,208	38.108	3.375
200	3600	444/5TS	$17,915	$19,016	$19,397	DP200X02NPW40	223	178	95.0	1537	34.358	2.375
	1800	444/5T	$15,009	$16,111	$16,433	DP200X04NPW40	229	183	95.8	1740	38.108	3.375
	1800	444/5TS	P.O.A	P.O.A	P.O.A	DP200X04NPSW40	229	183	95.8	1740	34.358	2.375
	1200	447/9T	P.O.A	P.O.A	P.O.A	DP200X06NPW40	241	193	95.4	2205	46.709	3.375
250	3600	444/5TS	$21,471	$22,572	$23,023	DP250X02NPW40	273	218	95.0	1806	34.358	2.375
	1800	444/5T	$18,515	$19,617	$20,009	DP250X04NPW40	275	220	95.8	2029	38.108	3.375
	1800	444/5TS	P.O.A	P.O.A	P.O.A	DP250X04NPSW40	275	220	95.8	2029	34.358	2.375
	1200	447/9T	P.O.A	P.O.A	P.O.A	DP250X06NPW40	300	240	95.4	2426	46.709	3.375
300	3600	444/5TS	$25,211	$26,312	$26,839	DP300X02NPW40	323	258	95.4	2007	34.358	2.375
	1800	447/9T	P.O.A	P.O.A	P.O.A	DP300X04NPW40	324	259	95.8	2095	46.709	3.375
	1200	447/9T	P.O.A	P.O.A	P.O.A	DP300X06NPW40	358	286	95.4	2646	46.709	3.375
350	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP350X02NPW40	384	307	95.4	1819	43.00	2.375
	1800	447/9T	P.O.A	P.O.A	P.O.A	DP350X04NPW40	393	314	95.8	2315	46.709	3.375
400	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP400X02NPW40	443	354	95.8	1896	43.00	2.375
	1800	447/9T	P.O.A	P.O.A	P.O.A	DP400X04NPW40	453	362	95.8	2536	46.709	3.375
450	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP450X02NPW40	478	382	96.2	2073	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP450X04NPW40	507	406	96.2	3087	62.88	3.625
500	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP500X02NPW40	536	429	96.2	2139	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP500X04NPW40	568	454	96.2	3308	62.88	3.625
550	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP550X02NPW40	580	464	96.2	2271	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP550X04NPW40	600	480	96.2	3528	62.88	3.625
600	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP600X02NPW40	638	510	96.2	2359	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP600X04NPW40	660	528	96.2	3749	62.88	3.625
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP600X04NPW40L5010	692	554	96.2	4851	65.086	4.375
650	3600	5010/11	P.O.A	P.O.A	P.O.A	DP650X02NPW40	715	572	95.8	2977	57.00	2.625
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP650X04NPW40	737	590	96.2	5292	65.086	4.375
700	3600	5010/11	P.O.A	P.O.A	P.O.A	DP700X02NPW40	767	614	95.8	3418	57.00	2.625
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP700X04NPW40	789	631	96.4	5954	70.444	5.125
750	3600	5010/11	P.O.A	P.O.A	P.O.A	DP750X02NPW40	827	662	96.0	3308	57.00	2.625
	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP750X02NPW40L5010	825	660	96.2	4190	59.211	3.250
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP750X04NPW40	870	696	96.2	5954	65.086	4.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP750X04NPW40L5810	858	686	96.4	6174	70.444	5.125
800	3600	5010/11	P.O.A	P.O.A	P.O.A	DP800X02NPW40	885	708	96.2	3528	57.00	2.625
	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP800X02NPW40L5010	885	708	96.2	4410	59.211	3.250
	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP800X02NPW40L5810	860	688	96.8	4300	65.57	3.375
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP800X04NPW40	906	725	96.2	5954	65.086	4.375
850	3600	5010/11	P.O.A	P.O.A	P.O.A	DP850X02NPW40	934	747	96.2	3638	57.00	2.625
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP850X04NPW40	953	762	96.5	6615	70.444	5.125
900	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP900X02NPW40	979	783	96.2	3749	59.211	3.250
	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP900X02NPW40L5810	962	770	96.8	4631	65.57	3.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP900X04NPW40	1010	808	96.5	7166	70.444	5.125
1000	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP1000X02NPW40	1120	896	96.5	5072	59.211	3.250
	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP1000X02NPW40L5810	1070	856	97.0	5182	65.57	3.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP1000X04NPW40	1150	920	96.5	7718	70.444	5.125
1100	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP1100X02NPW40	1160	928	97.0	6395	65.57	3.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP1100X04NPW40	1220	976	96.5	7718	70.444	5.125
1250	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP1250X02NPW40	1310	1048	97.0	6615	65.57	3.375

Flange: Replace 'DP' with 'CP' for C Flange
Replace 'DP' with 'DD' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W40 NEMA Premium Motors

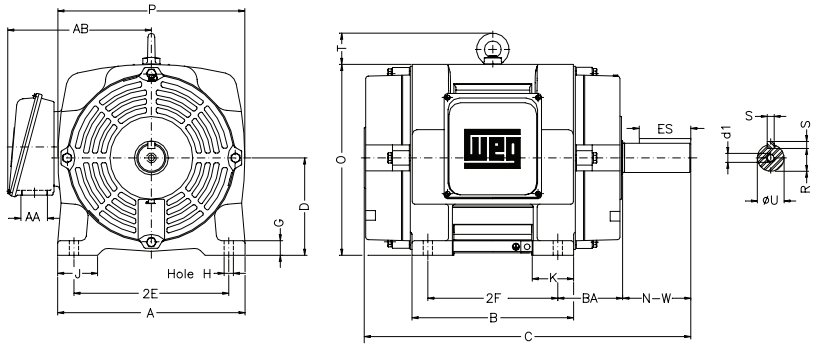
ODP - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
15	11	1775	254T	37.3	18.6	14.9	6.7	290%	300%	14	254	59	1.25	91.7	92.4	93.0	0.60	0.72	0.80
		1180	284T	35.5	17.8	14.2	6.6	260%	280%	12	400	58	1.25	89.5	91.0	91.7	0.72	0.81	0.85
20	15	3520	254T	49.3	24.6	19.7	6.0	190%	250%	12	179	66	1.25	89.5	90.2	91.0	0.71	0.80	0.84
		1770	256T	49.5	24.8	19.8	6.3	260%	280%	12	295	60	1.25	91.7	93.0	93.0	0.63	0.72	0.82
		1175	286T	48.0	24.0	19.2	6.3	220%	240%	18	437	58	1.25	91.7	92.4	92.4	0.74	0.83	0.85
25	18.5	3530	256T	59.5	29.8	23.8	6.5	200%	260%	9	243	67	1.25	91.0	91.7	91.7	0.73	0.82	0.85
		1770	284T	59.8	29.9	23.9	6.7	250%	280%	15	342	62	1.25	92.4	93.0	93.6	0.67	0.78	0.83
		1180	324T	60.8	30.4	24.3	6.0	200%	240%	18	509	60	1.25	91.7	92.4	93.0	0.67	0.77	0.82
30	22	3540	284TS	69.5	34.8	27.8	6.4	220%	280%	10	333	72	1.25	92.4	93.0	92.4	0.77	0.84	0.86
		1770	286T	70.8	35.4	28.3	6.7	260%	280%	14	419	63	1.25	93.6	94.1	94.1	0.70	0.80	0.83
		1180	326T	72.0	36.0	28.8	6.2	220%	270%	17	630	60	1.25	91.7	93.0	93.6	0.65	0.77	0.82
40	30	3535	286TS	94.3	47.1	37.7	6.4	200%	260%	10	417	73	1.25	91.7	93.0	93.0	0.74	0.83	0.86
		1775	324T	96.5	48.3	38.6	6.2	220%	230%	28	529	64	1.25	93.6	94.1	94.1	0.68	0.78	0.83
		1185	364/5T	94.2	47.1	37.7	6,4	180%	230%	22	787	68	1.25	93.6	94.1	94.1	0.74	0.82	0.85
50	37	3555	324TS	118	59.1	47.3	6.4	220%	260%	28	496	74	1.25	92.4	93.6	93.6	0.74	0.82	0.84
		1775	326T	120	59.9	47.9	6.3	240%	250%	12	573	65	1.25	94.1	94.5	94.5	0.70	0.79	0.82
		1185	364/5T	116	58.1	46.5	6,7	200%	250%	15	820	68	1.25	93.6	94.1	94.1	0.74	0.82	0.85
60	45	3555	326TS	142	71.0	56.8	6.2	200%	260%	24	582	75	1.25	93.0	93.6	93.6	0.77	0.84	0.85
		1780	364/5T	140	69.9	55.9	6,5	200%	240%	19	785	69	1.25	94.5	95.0	95.0	0.73	0.82	0.85
		1185	404/5T	141	70.3	56.2	6,7	240%	270%	16	975	68	1.25	91.7	94.5	94.5	0.73	0.82	0.85
75	55	3565	364/5TS	170	84.8	67.8	6,6	180%	260%	19	736	84	1.25	91.7	93.0	93.6	0.77	0.84	0.87
		1780	364/5T	171	85.5	68.4	6,8	190%	250%	14	811	69	1.25	94.5	95.0	95.0	0.73	0.82	0.85
		1185	404/5T	172	85.9	68.7	6,7	240%	270%	11	1,008	68	1.25	94.1	94.5	94.5	0.72	0.81	0.85
100	75	3560	364/5TS	232	116	92.8	6,6	180%	260%	13	774	84	1.25	92.4	93.6	93.6	0.77	0.84	0.87
		1780	404/5T	230	115	92.0	6,8	200%	250%	12	992	69	1.25	95.0	95.4	95.4	0.75	0.83	0.86
		1190	444/5T	254	127	102	6,1	200%	250%	13	1,301	69	1.25	94.5	95.0	95.0	0.61	0.71	0.78
125	90	3560	404/5TS	272	136	109	6,8	170%	260%	12	886	84	1.25	93.0	94.1	94.1	0.79	0.86	0.88
		1780	404/5T	276	138	110	6,9	220%	260%	10	1,072	69	1.25	95.0	95.4	95.4	0.75	0.83	0.86
		1190	444/5T	308	154	123	6,3	210%	280%	11	1,389	69	1.25	94.5	95.0	95.0	0.59	0.71	0.77
150	110	3555	404/5TS	334	167	134	6,6	160%	240%	9	931	84	1.25	93.6	94.1	94.1	0.79	0.86	0.88
		1785	444/5T	340	170	136	6,5	180%	250%	22	1,374	78	1.25	95.4	95.8	95.8	0.74	0.82	0.85
		1190	444/5T	366	183	146	6,4	210%	270%	11	1,563	69	1.25	94.5	95.0	95.4	0.62	0.73	0.79
200	150	3570	444/5TS	450	225	180	6,5	170%	230%	21	1400	85	1.15	93.0	94.5	95.0	0.79	0.86	0.88
		1785	444/5T	468	234	187	6,6	190%	250%	14	1446	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1785	444/5TS	468	234	187	6,6	190%	250%	14	1446	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1185	447/9T	483	241	193	5.8	200%	220%	18	2205	79	1.15	95.0	95.4	95.4	0.69	0.78	0.82
250	185	3570	444/5TS	556	278	222	6,7	170%	230%	16	1488	85	1.15	93.6	94.5	95.0	0.79	0.85	0.88
		1780	444/5T	578	289	231	6,4	210%	250%	9	1517	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1780	444/5TS	578	289	231	6,4	210%	250%	9	1517	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1185	447/9T	600	300	240	6.5	220%	240%	18	2426	79	1.15	95.4	95.8	95.4	0.67	0.77	0.81
300	220	3570	444/5TS	658	329	263	6,5	180%	240%	12	1535	85	1.15	95.0	95.4	95.4	0.80	0.86	0.88
		1780	447/9T	648	324	259	7.1	220%	230%	10	2095	77	1.15	95.8	95.8	95.8	0.81	0.87	0.89
		1185	447/9T	715	358	286	6.7	220%	240%	18	2646	79	1.15	95.4	95.8	95.4	0.67	0.77	0.81
350	260	3565	447/9TS	768	384	307	6.5	170%	250%	14	1819	87	1.15	95.0	95.4	95.4	0.83	0.88	0.89
		1780	447/9T	785	393	314	6.6	200%	230%	10	2315	77	1.15	95.8	95.8	95.8	0.79	0.85	0.87
400	300	3565	447/9TS	885	443	354	6.5	170%	250%	14	1896	87	1.15	95.4	95.8	95.8	0.83	0.88	0.89
		1780	447/9T	905	453	362	6.8	230%	230%	9	2536	77	1.15	95.8	95.8	95.8	0.78	0.85	0.87
450	330	3565	447/9TS	956	478	382	6.8	180%	250%	14	2073	87	1.15	95.8	96.2	96.2	0.84	0.89	0.90
		1787	5010/11	1014	507	406	6.8	220%	220%	18	3087	80	1.15	95.4	95.8	96.2	0.73	0.82	0.85
500	370	3570	447/9TS	1072	536	429	7.1	190%	250%	14	2139	87	1.15	95.8	96.2	96.2	0.84	0.89	0.90
		1787	5010/11	1136	568	454	7.0	230%	230%	17	3308	80	1.15	95.4	95.8	96.2	0.73	0.82	0.85
550	400	3565	447/9TS	1160	580	464	7.2	200%	250%	14	2271	87	1.15	95.8	96.2	96.2	0.84	0.89	0.90
		1787	5010/11	1200	600	480	6.8	220%	220%	16	3528	80	1.15	95.6	96.2	96.2	0.76	0.84	0.87
600	440	3570	447/9TS	1276	638	510	7.9	200%	270%	14	2359	87	1.15	95.8	96.2	96.2	0.83	0.89	0.90
		1787	5010/11*	1320	660	528	6.8	220%	220%	12	3749	80	1.00	95.8	96.2	96.2	0.76	0.84	0.87
650	480	3570	5010/11	1430	715	572	6.5	180%	230%	12	2977	89	1.15	95.0	95.4	95.8	0.78	0.85	0.88
		1785	L5010/11	1474	737	590	6.0	150%	220%	25	5292	80	1.15	95.4	96.2	96.2	0.76	0.83	0.85
700	515	3570	5010/11	1534	767	614	6.8	200%	240%	16	3418	89	1.15	95.4	95.8	95.8	0.79	0.86	0.88
		1790	L5810/11	1578	789	631	6.8	160%	200%	22	5954	85	1.15	96.2	96.4	96.4	0.75	0.83	0.85
750	560	3580	5010/11	1654	827	662	7.5	210%	260%	12	3308	89	1.15	95.4	96.0	96.0	0.76	0.83	0.87
		1785	L5010/11	1740	870	696	6.5	170%	230%	25	5954	80	1.15	95.4	96.2	96.2	0.73	0.81	0.84
800	590	3575	5010/11	1770	885	708	7.4	200%	250%	12	3528	89	1.15	95.8	96.2	96.2	0.78	0.85	0.87
		1785	L5010/11	1812	906	725	6.2	160%	220%	25	5954	80	1.00	95.4	96.2	96.2	0.74	0.82	0.85
850	630	3575	5010/11*	1868	934	747	7.4	200%	250%	10	3638	89	1.00	95.8	96.2	96.2	0.78	0.85	0.88
		1790	L5810/11	1906	953	762	6.8	160%	210%	20	6615	85	1.15	96.4	96.5	96.5	0.77	0.84	0.86
900	660	3575	5010/11*	1958	979	783	7.2	200%	250%	8	3749	89	1.00	95.8	96.2	96.2	0.78	0.85	0.88
		1790	L5810/11	2020	1010	808	7.0	200%	220%	20	7166	85	1.15	96.4	96.5	96.5	0.75	0.83	0.86
1000	750	3575	L5010/11	2240	1120	896	5.2	100%	180%	25	5072	89	1.00	96.2	96.5	96.5	0.80	0.85	0.87
		1790	L5810/11	2300	1150	920	7.2	170%	200%	20	7718	85	1.00	96.4	96.5	96.5	0.78	0.84	0.85
1100	800	3580	L5810/11	2320	1160	928	6.5	120%	200%	20	6395	94	1.00	96.5	97.0	97.0	0.84	0.87	0.89
		1790	L5810/11	2440	1220	976	7.2	180%	210%	20	7718	85	1.00	96.4	96.5	96.5	0.77	0.84	0.85
1250	900	3580	L5810/11	2620	1310	1048	6.5	110%	200%	20	6615	94	1.00	96.5	97.0	97.0	0.86	0.88	0.89

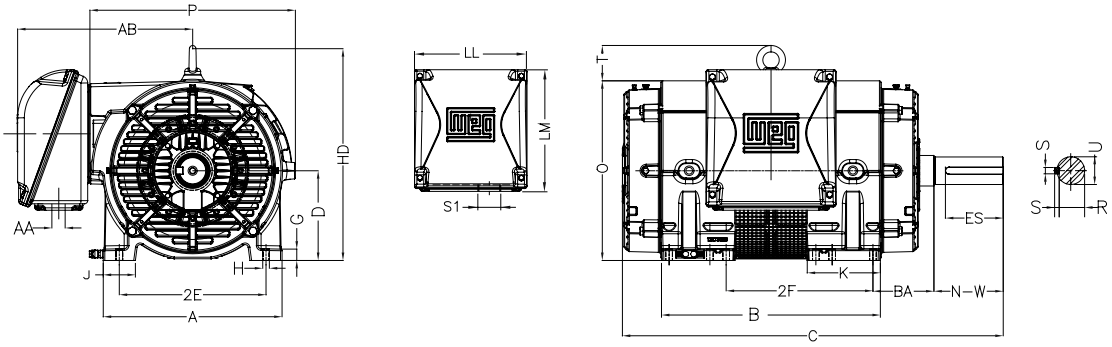
W40 NEMA Premium Motors

ODP - Mechanical Data

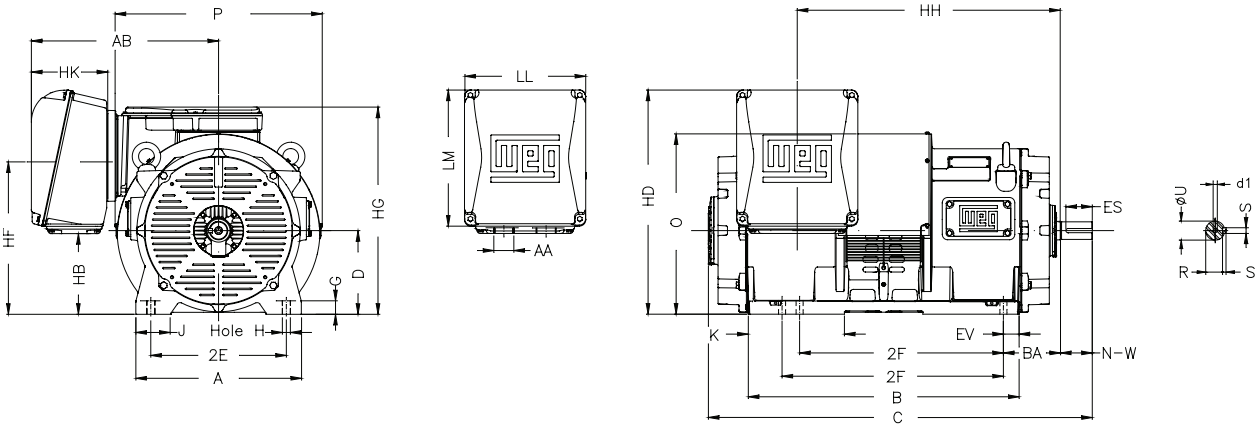
Frames 254T to 444/5T



Frame 447/9T



Frames L5010 to L5810



W40 NEMA Premium Motors

ODP - Mechanical Data

NEMA FRAME	2E	J	A	AB	P	2F	K	B	BA	U	d1	N-W	Es	S	R
254T	10.000	2.520	12.130	10.079	11.812	8.250	2.560	10.100	4.250	1.625	A4	4.000	2.756	0.375	1.406
256T						10.000		11.732							
284TS	11.000	3.150	13.780	10.886	13.700	9.500	2.960	11.574	4.750			3.250	2.480		
284T												4.622	3.149	0.500	1.594
286TS						11.000		13.070				3.250	2.480	0.375	1.406
286T										1.875		4.622	3.149	0.500	1.594
324TS	12.500	3.230	15.160	11.496	15.118	10.500	3.350		5.250			3.750	2.756		
324T										2.125		5.250	3.937		1.844
326TS						12.000		14.566		1.875		3.750	2.756		1.594
326T										2.125		5.250	3.937		1.844
364/5TS	14.000	3.520	17.170	15.580	18.500	11.250/12.250	4.850	15.320	5.875	1.875	DUNC 3/4"-10	3.748	1.968		1.591
364/5T										2.375		5.874	4.330	0.625	2.019
404/5TS	16.000	3.940	19.920			12.250/13.750	5.650	17.870	6.625	2.125		4.250	2.756	0.500	1.842
404/5T										2.875		7.250	5.512	0.750	2.449
444/5TS	18.000	2.940	21.260	18.710	22.470	14.500/16.500	6.820	19.730	7.500	2.375		4.750	3.000	0.625	2.021
444/5T										3.375		8.500	7.087	0.875	2.880
447/9TS	18.000	3.940	21.929	21.466	25.197	20.000/25.000	9.000	26.819		2.375		4.750	3.000	0.625	2.021
447/9T										3.375		8.500	7.087	0.875	2.880
5010/11 - 2P	20.000	5.236	24.724	28.812	30.670	32.000/36.000	14.200	40.260	8.504	3.625	DUNC 3/4"-10	4.750	3.000	0.625	2.275
5010/11										3.625		10.630	8.861	0.875	3.134
L5010/11 - 2P	20.000	5.140	24.803	34.908	34.095	32.000/36.000	10.685	42.256	8.500	3.250	DUNC 3/4"-10	5.750	4.331	0.750	2.831
L5010/11										4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11 - 2P	23.000	6.710	29.530	34.908	39.976	36.000/40.000	10.810	46.785	10.000	3.375	DUNC 7/8"-9	6.750	5.512	0.875	2.880
L5810/11										5.125	DUNC 1 1/4"	11.625	9.842	1.250	4.423

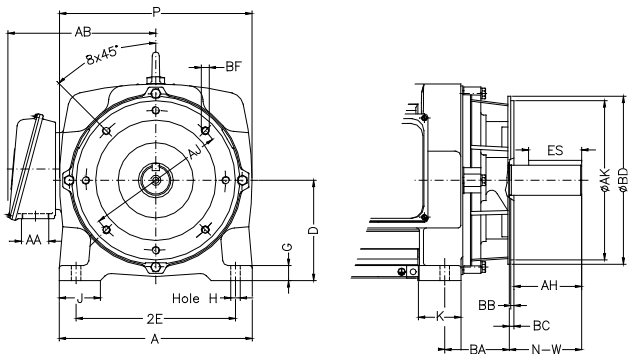
NEMA FRAME	D	G	O	LL	LM	HB	HD	HF	HG	HH	HK	Hole H	C	AA	Bearings	
															Drive end	Non-drive end
254T	6.250	0.787	12.204	6.300	6.693	-	-	-	-	-	-	0.531	20.669	NPT 1 1/2"	6309 Z-C3	6209 Z-C3
256T	6.250												22.401			
284TS	7.000	1.102	13.858										22.000		6311 Z-C3	6211 Z-C3
284T													23.386			
286TS													23.504		6311 Z-C3	6211 Z-C3
286T													24.882			
324TS	8.000	1.299	15.551	7.874	8.268							0.656	24.685	NPT 2"	6312 Z-C3	6212 Z-C3
324T													26.181			
326TS																
326T													27.667			
364/5TS	9.000	1.130	18.410	10.590	11.260	4.26				12		0.657	27.520	NPT 3"	6314 C3	6212-Z-C3
364/5T													29.650			
404/5TS	10.000	1.130	19.410			5.26				13.5		0.807	31.020			
404/5T													34.020		6316 C3	
405TS													31.020		6314 C3	
405T													34.020		6316 C3	
444/5TS	11.000	1.130	21.950	14.940	15.060	4.88				15.75			34.360	2XNPT 3"	6314 C3	
444/5T													38.110		6319 C3	6316 C3
447/9TS		1.400	22.000	15.905	17.717							0.081	43.000		6314	6314
447/9T													46.709		6319	
5010/11 - 2P	12.500	1.972	27.150	18.090	21.428	13.732	34.850	25.042	32.323	39.331	11.410	1.102	57.000	2xNPT 4"	6314 C3	6314 C3
5010/11													62.880		6319 C3	6314 C3
L5010/11 - 2P	12.500	1.873	29.527	21.850	32.874	5.510	38.384	21.142	34.754	40.822	18.805	1.181	59.211	2xNPT 4"	6218 C3	6218 C3
L5010/11													65.086		6224 C3	6218 C3
L5810/11 - 2P	14.500	1.873	34.460	21.850	32.874	9.085	41.959	24.717	38.570	45.830	18.805	1.181	65.570	2xNPT 4"	6220 C3	6220 C3
L5810/11													70.444		6228 C3	6220 C3

W40 NEMA Premium Motors

ODP - Mechanical Data

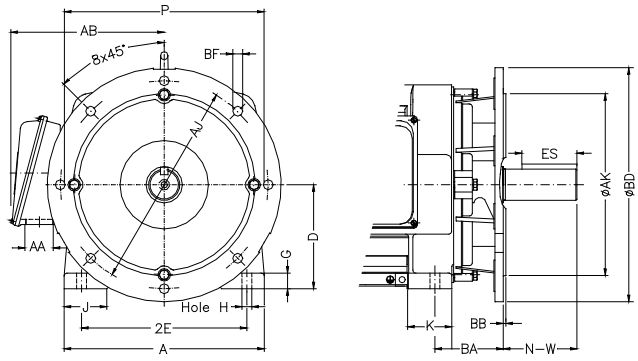
FC Flange

NEMA FRAME	BA	BC	AJ	AK	BD	S	T	AH	α	Nº of holes
254T	4.25	0.250	7.250	8.500	8.875	UNC 1/2"x13	0.250	3.750	45°	4
256T										
284TS	4.75		7.250	10.500	11.031			3.000		
284T								4.375		
286TS								3.000		
286T								4.375		
324TS	5.25		11.000	12.500	15.562	UNC 5/8"x11		3.500		
324T								5.000		
326TS								3.500		
326T								5.000		
364/5TS	5.875							3.500		8
364/5T								5.625		
404/5TS	6.625							4.000		
404/5T								7.000		
444/5TS	7.5		14.000	16.000	17.913			4.500		
444/5T								8.250		
447/9TS										
447/9T								8.250		



FD Flange

NEMA FRAME	BA	AJ	AK	BD	S	T	AH	α	Nº of holes
254T	4.25	12.500	11.000	14.000	0.828	0.250	3.750	45°	4
256T									
284TS	4.75					0.203	3.000		
284T							4.375		
286TS							3.000		
286T							4.375		
324TS	5.25	16.000	14.000	18.000		0.250	3.500		
324T							5.000		
326TS							3.500		
326T							5.000		
364/5TS	5.875			17.716			3.500		
364/5T							5.625		
404/5TS	6.625	20.000	18.000	21.653			4.000		8
404/5T							7.000		
444/5TS	7.5						4.500		
444/5T							8.250		
447/9TS						0.203			
447/9T							8.250		



W22 IEC Tru-Metric - NEMA Premium Efficiency
TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6, and 8 poles, 60Hz & 50Hz
- Voltage:
  - 460//220-240/380-415V (frames 63 to 100L)
  - 460//380-415V (frames 112M to 355M/L)
  - 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing:
  - V’Ring sealing up to frame 200L
  - WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 225S/M up to 355M/L
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 225S/M and all 2 pole motors and frame 250S/M
- 4140 for 250S/M shaft upwards in 4, 6 and 8 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 200L
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 225S/M and up.
- Insulated endbells from frame 315L and up
- Design “N”
- Service Factor (60Hz only):
  - 1.25 up to frame 315L
  - 1.15 for frame 355M/L
- Continuous duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Metric threaded cable entries on the terminal box
- Re-configurable Terminal Box for frames 225S/M and up
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 63 to 132M
  - 203A - Frames 160M to 355M/L
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 160 and up
- Terminal block

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings FOR 60 HZ ONLY				
Frames	Poles	Constant Torque	Variable Torque	VFD
63 - 355M/L ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
315L - 355M/L > 250 HP	All	6:1		Any
	All	12:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated bearings
- Insulated endbells (frame 225 and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- No feet
- Class ‘H’ insulation
- Aluminum frames available from frame 63 to 132

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Purchasing Data

Rated Output			IEC Frame	List Price	w/ 'C Din' Flange	w/ 'FF' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dim. (mm)
kW	HP	RPM						460V	575V			
.12	0.16	3600	63	$397	$469	$480	ME.16X02W2263	.322	.258	64	13.7	8.504
		1800	63	$398	$470	$481	ME.16X04W2263	.321	.257	66	11.5	8.504
		1200	63	$423	$495	$506	ME.16X06W2263	.453	.362	64	17	8.504
		900	71	$564	$636	$647	ME.16X08W2271	.55	.44	59.5	25.4	9.764
.18	0.25	3600	63	$400	$472	$483	ME.25X02W2263	.449	.359	68	14.8	8.504
		1800	63	$400	$472	$483	ME.25X04W2263	.471	.377	69.5	15.9	8.504
		1200	71	$439	$511	$522	ME.25X06W2271	.632	.506	67.5	25.4	9.764
		900	80	$728	$800	$811	ME.25X08W2280	.598	.478	64	29.8	10.866
.25	0.33	3600	63	$416	$488	$499	ME.33X02W2263	.610	.488	69.5	15.9	8.504
		1800	71	$403	$475	$486	ME.33X04W2271	.620	.496	73.4	17.6	9.764
		1200	71	$472	$544	$555	ME.33X06W2271	.676	.541	71.4	26.5	9.764
		900	80	$748	$820	$831	ME.33X08W2280	.804	.643	68.5	32	10.866
.37	0.5	3600	71	$459	$531	$542	ME.50X02W2271	.772	.618	73.4	16.5	9.764
		1800	71	$416	$488	$499	ME.50X04W2271	.886	.709	78.2	20.9	9.764
		1200	80	$490	$562	$573	ME.50X06W2280	.881	.705	75.3	27.6	10.866
		900	90S	$772	$855	$866	ME.50X08W2290S	1.15	.92	72	41.9	304
.55	0.75	3600	71	$475	$558	$569	ME.75X02W2271	1.07	.856	76.8	18.7	9.764
		1800	80	$480	$563	$575	ME.75X04W2280	1.09	.872	81.1	27.6	10.866
		1200	90S	$525	$608	$619	ME.75X06W2290S	1.26	1.01	81.7	41.9	304
		900	90L	$796	$879	$890	ME.75X08W2290L	1.5	1.2	74	50.7	329
0.75	1	3600	80	$528	$605	$616	ME000X02W2280	1.43	1.14	81.5	29.8	276
		1800	90S	$524	$607	$618	ME000X04W2290S	1.41	1.13	85.5	40.8	304
		1200	90L	$698	$781	$792	ME000X06W2290L	1.68	1.34	82.5	55.1	329
		900	100L	$1,098	$1,192	$1,199	ME000X08W22100L	2.11	1.69	75.5	67.2	376
1.1	1.5	3600	80	$536	$608	$619	ME001X02W2280	2.03	1.62	84.0	33.1	276
		1800	90S	$556	$639	$650	ME001X04W2290S	2.05	1.64	86.5	43.0	304
		1200	112M	$823	$917	$924	ME001X06W22112M	2.29	1.83	87.5	86	393
		900	100L	$1,200	$1,294	$1,301	ME001X08W22100L	2.98	2.38	78.5	72.8	376
1.5	2	3600	90S	$640	$723	$734	ME002X02W2290S	2.69	2.15	85.5	40.8	304
		1800	90L	$700	$783	$794	ME002X04W2290L	2.79	2.23	86.5	50.7	329
		1200	L100L	$814	$908	$915	ME002X06W22L100L	3.04	2.43	88.5	83.8	420
		1200	112M	$848	$942	$949	ME002X06W22112M	3.08	2.46	88.5	92.6	393
		900	112M	$1,834	$1,928	$1,935	ME002X08W22112M	3.57	2.86	82.5	94.8	393
2.2	3	3600	90L	$704	$788	$799	ME003X02W2290L	3.85	3.08	86.5	51.8	329
		1800	100L	$804	$908	$915	ME003X04W22100L	3.91	3.13	89.5	69.4	376
		1200	132S	$1,133	$1,240	$1,245	ME003X06W22132S	4.41	3.53	89.5	139	452
		900	132S	$2,098	$2,205	$2,210	ME003X08W22132S	4.70	3.76	84.0	152	452
3	4	3600	100L	$916	$1,010	$1,017	ME004X02W22100L	5.01	4.01	88.5	70.5	376
		1800	L100L	$834	$935	$943	ME004X04W22L100L	5.39	4.31	89.5	82.7	420
		1800	112M	$915	$1,009	1,016	ME004X04W22112M	5.33	4.26	89.5	94.8	393
		1200	132S	$1,231	$1,338	$1,343	ME004X06W22132S	6.01	4.81	89.5	134	452
		900	132M	$3,017	$3,124	$3,129	ME004X08W22132M	6.29	5.03	85.5	165	490
4	5.5	3600	112M	$1,060	$1,154	$1,161	ME5.5X02W22112M	6.67	5.34	88.5	90.4	393
		1800	112M	$1,047	$1,141	$1,148	ME5.5X04W22112M	7.28	5.82	89.5	97	393
		1200	132M	$1,323	$1,430	$1,435	ME5.5X06W22132M	7.90	6.32	89.5	146	490
		900	160M	$3,175	P.O.A	$3,417	ME5.5X08W22160M	8.17	6.54	86.5	251	598
5.5	7.5	3600	112M	$1,166	$1,269	$1,290	ME007X02W22112M	9.07	7.26	89.5	88.2	393
		3600	132S	$1,256	$1,363	$1,368	ME007X02W22132S	8.97	7.18	89.5	143	452
		1800	132S	$1,286	$1,393	$1,398	ME007X04W22132S	9.07	7.26	91.7	152	452
		1200	132M/L	$1,937	$2,044	$2,049	ME007X06W22132M/L	10.8	8.64	91.0	176	515
		900	160M	$3,344	P.O.A	$3,586	ME007X08W22160M	11.1	8.88	87.5	271	598
7.5	10	3600	132S	$1,414	$1,521	$1,526	ME010X02W22132S	12.3	9.84	90.2	152	452
		1800	132M	$1,426	$1,533	$1,538	ME010X04W22132M	12.2	9.76	91.7	172	490
		1200	160M	$1,937	P.O.A	$2,179	ME010X06W22160M	13.1	10.5	91.0	269	598
		900	160L	$4,409	P.O.A	$4,650	ME010X08W22160L	15.2	12.2	88.5	320	642
9.2	12.5	3600	132M	$1,590	$1,697	$1,702	ME012X02W22132M	14.6	11.7	91.0	172	490
		1800	160M	$1,739	P.O.A	$1,981	ME012X04W22160M	15.2	12.2	92.4	240	598
		1200	160L	$2,767	P.O.A	$3,012	ME012X06W22160L	15.7	12.6	91.7	302	642
		900	180M	$4,530	Not Available	$4,843	ME012X08W22180M	16.1	12.9	89.5	381	664
11	15	3600	132M	$1,676	$1,783	$1,788	ME015X02W22132M	17.2	13.8	91.0	172	490
		3600	160M	$1,972	P.O.A	$2,214	ME015X02W22160M	17.9	14.3	91.7	254	598
		1800	160M	$1,811	P.O.A	$2,053	ME015X04W22160M	18.2	14.6	92.4	271	598
		1200	160L	$2,934	P.O.A	$3,176	ME015X06W22160L	18.8	15.0	91.7	315	642
		900	180L	$5,106	Not Available	$5,419	ME015X08W22180L	19.5	15.6	89.5	408	702
15	20	3600	160M	$2,450	P.O.A	$2,707	ME020X02W22160M	24.4	19.5	91.7	262	598
		1800	160L	$2,326	P.O.A	$2,568	ME020X04W22160L	25.0	20.0	93.0	320	642
		1200	180L	$3,173	Not Available	$3,486	ME020X06W22180L	24.7	19.8	91.7	425	702
		900	200L	$6,035	Not Available	$6,401	ME020X08W22200L	28.0	22.4	91.0	518	767
18.5	25	3600	160L	$3,136	P.O.A	$3,378	ME025X02W22160L	29.9	23.9	92.4	300	642
		1800	180M	$3,198	Not Available	$3,511	ME025X04W22180M	30.6	24.5	93.6	397	664
		1200	200L	$3,816	Not Available	$4,182	ME025X06W22200L	30.8	24.6	93.0	492	767
		900	225S/M	$10,168	Not Available	$11,000	ME025X08W22225S/M	31.6	25.3	93.0	831	886
22	30	3600	180M	$3,748	Not Available	$4,061	ME030X02W22180M	34.7	27.8	92.4	388	664
		1800	180L	$3,397	Not Available	$3,710	ME030X04W22180L	36.0	28.8	93.6	437	702
		1200	200L	$4,285	Not Available	$4,651	ME030X06W22200L	37.1	29.7	93.0	529	767
		900	225S/M	$10,675	Not Available	$11,507	ME030X08W22225S/M	37.6	30.1	93.0	886	886
30	40	3600	200L	$4,911	Not Available	$5,277	ME040X02W22200L	47.1	37.7	93.0	538	767
		1800	200L	$4,750	Not Available	$5,116	ME040X04W22200L	49.4	39.5	94.1	536	767
		1200	225S/M	$6,588	Not Available	$7,420	ME040X06W22225S/M	47.6	38.1	94.1	884	886
		900	250S/M	$11,600	Not Available	$12,432	ME040X08W22250S/M	50.9	40.7	93.6	1080	965
37	50	3600	200L	$5,557	Not Available	$5,923	ME050X02W22200L	57.7	46.2	93.6	584	767
		1800	200L	$5,455	Not Available	$5,821	ME050X04W22200L	60.7	48.6	94.5	626	767
		1800	225S/M	$6,816	Not Available	$7,648	ME050X04W22225S/M	58.5	46.8	94.5	864	886
		1200	250S/M	$10,061	Not Available	$10,893	ME050X06W22250S/M	58.8	47.0	94.1	1071	965
		900	280S/M	$21,652	Not Available	$22,726	ME050X08W22280S/M	64.1	51.3	94.1	1484	1071
45	60	3600	225S/M	$7,639	Not Available	$8,471	ME060X02W22225S/M	66.7	53.4	94.1	917	886
		1800	225S/M	$7,268	Not Available	$8,100	ME060X04W22225S/M	69.9	55.9	95.0	926	886
		1200	280S/M	$12,518	Not Available	$13,592	ME060X06W22280S/M	74.7	59.8	94.5	1495	1071
		900	280S/M	$22,795	Not Available	$23,869	ME060X08W22280S/M	77.0	61.6	94.1	1634	1071

Flange: Replace 'E' with 'C' for C or C Din Flange
Replace 'E' with 'A' for A (B5) Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Purchasing Data

Rated Output			IEC Frame	List Price	w/ 'C Din' Flange	w/ 'FF' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dim. (mm)
kW	HP	RPM						460V	575V			
55	75	3600	250S/M	$10,275	Not Available	$11,107	ME075X02W22250S/M	80.3	64.2	94.5	1069	965
		1800	250S/M	$9,705	Not Available	$10,537	ME075X04W22250S/M	85.1	68.1	95.4	1118	965
		1200	280S/M	$14,568	Not Available	$15,642	ME075X06W22280S/M	90.2	72.2	94.5	1594	1071
		900	315S/M	$26,513	Not Available	$28,032	ME075X08W22315S/M	93.7	75.0	94.5	2063	1274
75	100	3600	250S/M	$12,140	Not Available	$12,972	ME100X02W22250S/M	109	87.2	95.0	1102	965
		3600	280S/M	$14,879	Not Available	$15,953	ME100X02W22280S/M	111	88.8	94.5	1603	1071
		1800	250S/M	$10,637	Not Available	$11,469	ME100X04W22250S/M	115	92.0	95.4	1171	965
		1800	280S/M	$13,570	Not Available	$14,644	ME100X04W22280S/M	116	92.8	95.4	1607	1071
		1200	315S/M	$15,526	Not Available	$17,064	ME100X06W22315S/M	122	97.6	95.0	2121	1274
		900	315S/M	$27,841	Not Available	$29,360	ME100X08W22315S/M	127	102	95.0	2313	1274
90	125	3600	280S/M	$15,937	Not Available	$17,011	ME125X02W22280S/M	132	106	95.0	1680	1071
		1800	280S/M	$14,596	Not Available	$15,670	ME125X04W22280S/M	139	111	95.4	1713	1071
		1200	315S/M	$19,312	Not Available	$20,850	ME125X06W22315S/M	146	117	95.4	2310	1274
		900	315S/M	$29,235	Not Available	$30,754	ME125X08W22315S/M	152	122	95.0	2533	1274
110	150	3600	280S/M	$16,824	Not Available	$17,898	ME150X02W22280S/M	161	129	95.0	1806	1071
		3600	315S/M	$20,658	Not Available	$22,177	ME150X02W22315S/M	163	130	95.0	2121	1274
		1800	280S/M	$16,868	Not Available	$17,942	ME150X04W22280S/M	170	136	95.8	1949	1071
		1800	315S/M	$18,376	Not Available	$19,895	ME150X04W22315S/M	170	136	95.8	2227	1274
		1200	315S/M	$20,329	Not Available	$21,867	ME150X06W22315S/M	178	142	95.8	2438	1274
		900	315S/M	$34,496	Not Available	$36,015	ME150X08W22315S/M	186	149	95.4	3014	1274
132	175	3600	315S/M	$23,468	Not Available	$24,987	ME175X02W22315S/M	193	154	95.4	2310	1274
		1800	315S/M	$19,535	Not Available	$21,054	ME175X04W22315S/M	203	162	96.2	2414	1274
		1200	315S/M	$34,508	Not Available	$36,027	ME175X06W22315S/M	214	171	95.8	2623	1274
		900	315L	$56,919	Not Available	$58,438	ME175X08W22315L	223	178	95.4	3325	1383
150	200	3600	315S/M	$25,833	Not Available	$27,352	ME200X02W22315S/M	219	175	95.4	2401	1274
		1800	315S/M	$20,388	Not Available	$21,907	ME200X04W22315S/M	228	182	96.2	2478	1274
		1200	315L	$33,222	Not Available	$34,741	ME200X06W22315L	240	192	95.8	3009	1383
		1200	315S/M	$32,580	Not Available	$34,099	ME200X06W22315S/M	240	192	95.8	3009	1274
		900	355M/L	$51,538	Not Available	$54,619	ME200X08W22355M/L	-	-	-	-	1482
160	220	3600	315S/M	$26,396	Not Available	$27,915	ME220X02W22315S/M	234	187	95.4	2489	1274
		1800	315S/M	$22,279	Not Available	$23,798	ME220X04W22315S/M	246	197	96.2	2540	1274
		1200	315L	$34,083	Not Available	$35,602	ME220X06W22315L	259	207	95.8	3192	1383
		1200	355M/L	$47,597	Not Available	$50,463	ME220X06W22355M/L	269	215	95.8	3514	1482
		900	355M/L	$53,336	Not Available	$56,453	ME220X08W22355M/L	265	212	95.8	3851	1482
185	250	3600	315S/M	$26,892	Not Available	$28,411	ME250X02W22315S/M	269	215	95.8	2639	1274
		1800	315S/M	$24,249	Not Available	$25,768	ME250X04W22315S/M	284	227	96.2	2694	1274
		1200	355M/L	$38,906	Not Available	$41,808	ME250X06W22355M/L	311	249	95.8	3673	1482
		900	355M/L	$65,986	Not Available	$68,852	ME250X08W22355M/L	311	249	95.8	4010	1482
200	270	3600	315L	$35,492	Not Available	$37,011	ME270X02W22315L	291	233	95.8	2877	1383
		1800	315L	$31,408	Not Available	$32,927	ME270X04W22315L	307	246	96.2	2937	1383
		1800	355M/L	$33,831	Not Available	$36,876	ME270X04W22355M/L	307	246	96.2	3296	1482
		1200	355M/L	$41,499	Not Available	$44,437	ME270X06W22355M/L	332	266	95.8	3834	1482
		900	355M/L	$66,484	Not Available	$69,350	ME270X08W22355M/L	332	266	95.8	4169	1482
220	300	3600	315L	$36,707	Not Available	$38,226	ME300X02W22315L	315	252	96.2	3020	1383
		3600	355M/L	$43,680	Not Available	$46,546	ME300X02W22355M/L	315	252	96.2	3494	1482
		1800	315L	$32,847	Not Available	$34,366	ME300X04W22315L	338	270	96.2	3153	1383
		1800	355M/L	$34,737	Not Available	$37,782	ME300X04W22355M/L	342	274	96.2	3426	1482
		1200	355M/L	$41,709	Not Available	$44,575	ME300X06W22355M/L	370	296	95.8	4087	1482
250	340	3600	315L	$39,556	Not Available	$41,094	ME340X02W22315L	358	286	96.2	3161	1383
		3600	355M/L	$46,650	Not Available	$49,623	ME340X02W22355M/L	358	286	96.2	3671	1482
		1800	315L	$35,732	Not Available	$37,270	ME340X04W22315L	384	307	96.2	3366	1383
		1800	355M/L	$41,229	Not Available	$44,453	ME340X04W22355M/L	384	307	96.2	3574	1482
		1200	355M/L	$47,886	Not Available	$50,859	ME340X06W22355M/L	419	335	95.9	4343	1482
260	350	3600	355M/L	$47,283	Not Available	$50,722	ME350X02W22355M/L	373	298	96.2	3671	1482
		1800	315L	$38,963	Not Available	$40,482	ME350X04W22315L	384	307	96.2	3366	1383
		1800	355M/L	$41,712	Not Available	$44,936	ME350X04W22355M/L	399	319	96.2	3574	1482
		1200	355M/L	$48,923	Not Available	$51,789	ME350X06W22355M/L	436	349	95.9	4343	1482
280	380	3600	355M/L	$49,735	Not Available	$53,281	ME380X02W22355M/L	397	318	96.2	3860	1482
		1800	355M/L	$44,659	Not Available	$48,098	ME380X04W22355M/L	430	344	96.2	3737	1482
		1200	355M/L	$50,755	Not Available	$53,621	ME380X06W22355M/L	469	375	96.0	4343	1482
315	430	3600	355M/L	$52,063	Not Available	$55,645	ME430X02W22355M/L	447	358	96.2	4052	1482
		1800	355M/L	$45,285	Not Available	$48,581	ME430X04W22355M/L	488	390	96.5	3907	1482
355	480	1800	355M/L	$48,404	Not Available	$51,664	ME480X04W22355M/L	543	434	96.5	4140	1482

Flange: Replace 'E' with 'C' for C or C Din Flange
Replace 'E' with 'A' for A (B5) Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 60Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			230V	460V	575V								50%	75%	100%	50%	75%	100%
0.12	0.16	3430	63	0.64	0.32	0.26	6.4	450%	460%	37	14	52	1.25	55.0	62.0	64.0	0.54	0.65	0.73
		1710	63	0.64	0.32	0.26	5.2	260%	300%	53	12	44	1.25	57.5	64.0	66.0	0.50	0.62	0.71
		1140	63	0.91	0.45	0.36	3.5	250%	280%	56	17	43	1.25	52.0	59.0	64.0	0.35	0.45	0.52
		825	71	1.10	0.55	0.44	2.5	180%	240%	50	25	41	1.25	46.0	52.5	59.5	0.30	0.37	0.46
0.18	0.25	3415	63	0.90	0.45	0.36	6.3	440%	440%	28	15	52	1.25	57.5	64.0	68.0	0.54	0.66	0.74
		1705	63	0.94	0.47	0.38	5.7	280%	330%	40	16	44	1.25	62.0	66.0	69.5	0.50	0.60	0.69
		1110	71	1.26	0.63	0.51	3.7	230%	270%	50	25	43	1.25	57.5	59.5	67.5	0.35	0.44	0.53
		830	80	1.20	0.60	0.48	3.8	240%	290%	56	30	42	1.25	50.5	60.0	64.0	0.38	0.48	0.59
0.25	0.33	3415	63	1.22	0.61	0.49	6.6	480%	470%	23	16	56	1.25	64.0	68.0	69.5	0.53	0.65	0.74
		1720	71	1.24	0.62	0.50	5.3	260%	280%	40	18	43	1.25	70.0	72.0	73.4	0.47	0.60	0.69
		1165	80	1.35	0.68	0.54	5.1	210%	310%	25	27	47	1.25	64.1	70.5	71.4	0.43	0.55	0.65
		860	80	1.61	0.80	0.64	4.3	250%	300%	30	32	42	1.25	67.5	68.0	68.5	0.37	0.48	0.57
0.37	0.5	3440	71	1.54	0.77	0.62	7	310%	330%	12	17	56	1.25	70.0	73.4	73.4	0.64	0.76	0.82
		1710	71	1.77	0.89	0.71	5.8	340%	350%	55	21	43	1.25	70.0	75.0	78.2	0.47	0.58	0.67
		1140	80	1.76	0.88	0.70	4.9	240%	280%	28	28	43	1.25	66.0	70.0	75.3	0.47	0.60	0.70
		870	90S	2.30	1.15	0.92	4.6	230%	310%	30	42	43	1.25	66.5	71.5	72.0	0.37	0.47	0.56
0.55	0.75	3415	71	2.14	1.07	0.86	7.3	370%	390%	17	19	56	1.25	74.0	75.5	76.8	0.66	0.78	0.84
		1720	80	2.18	1.09	0.87	7.3	340%	380%	22	28	44	1.25	77.0	80.0	81.1	0.60	0.73	0.78
		1165	90S	2.52	1.26	1.01	6.4	260%	340%	35	42	49	1.25	78.0	81.5	81.7	0.45	0.58	0.67
		860	90L	3.00	1.50	1.20	4.5	200%	250%	29	51	43	1.25	70.0	73.0	74.0	0.41	0.53	0.62
0.75	1	3450	80	2.86	1.43	1.14	8.0	490%	500%	32	29.8	59	1.25	75.5	80.0	81.5	0.62	0.74	0.81
		1760	90S	2.82	1.41	1.13	8.6	280%	390%	22	40.8	49	1.25	80.0	82.5	85.5	0.57	0.70	0.78
		1155	90L	3.36	1.68	1.34	6.4	300%	350%	36	55.1	49	1.25	77.0	81.5	82.5	0.46	0.59	0.68
		860	100L	4.22	2.11	1.69	4.8	200%	270%	61	67.2	50	1.25	70.0	74.0	75.5	0.38	0.50	0.59
1.1	1.5	3450	80	4.06	2.03	1.62	8.0	530%	520%	27	33.1	59	1.25	78.5	81.5	84.0	0.62	0.74	0.81
		1760	90S	4.10	2.05	1.64	8.5	290%	390%	16	43	49	1.25	80.0	84.0	86.5	0.57	0.70	0.78
		860	100L	5.96	2.98	2.38	4.9	220%	270%	42	72.8	50	1.25	74.0	75.5	78.5	0.38	0.50	0.59
1.5	2	3485	90S	5.38	2.69	2.15	8.4	410%	440%	16	40.8	62	1.25	80.0	82.5	85.5	0.64	0.75	0.82
		1755	90L	5.58	2.79	2.23	8.3	300%	400%	14	50.7	49	1.25	82.5	85.5	86.5	0.56	0.69	0.78
		1160	L100L	6.08	3.04	2.43	6.8	260%	300%	40	83.8	48	1.25	85.5	87.5	88.5	0.49	0.62	0.70
		855	112M	7.14	3.57	2.86	5.7	280%	330%	38	94.8	46	1.25	77.0	80.0	82.5	0.44	0.57	0.64
2.2	3	3480	90L	7.70	3.85	3.08	8.4	430%	460%	14	51.8	62	1.25	84.0	85.5	86.5	0.64	0.76	0.83
		1740	100L	7.82	3.91	3.13	7.6	380%	370%	20	69.4	-	1.25	86.6	88.2	89.5	0.59	0.72	0.79
		1760	112M	7.82	3.91	3.13	7.7	220%	340%	33	90.4	56	1.25	85.5	87.5	89.5	0.59	0.72	0.79
		1175	132S	8.82	4.41	3.53	6.1	180%	310%	50	139	55	1.25	84.0	87.5	89.5	0.49	0.62	0.70
		860	132S	9.40	4.70	3.76	6.7	270%	310%	32	152	48	1.25	78.5	82.5	84.0	0.49	0.62	0.70
3	4	3510	100L	10.0	5.01	4.01	9.2	380%	500%	18	70.5	67	1.25	82.5	86.5	88.5	0.68	0.79	0.85
		1740	L100L	10.8	5.39	4.31	8.6	460%	480%	18	82.7	54	1.25	84.0	86.5	89.5	0.59	0.71	0.79
		1170	132S	12.0	6.01	4.81	6.3	180%	290%	68	134	55	1.25	85.5	88.5	89.5	0.49	0.62	0.70
		860	132M	12.6	6.29	5.03	6.9	290%	340%	26	165	48	1.25	80.0	82.5	85.5	0.49	0.62	0.70
4	5.5	3505	112M	13.3	6.67	5.34	8.6	310%	440%	24	90.4	64	1.25	85.5	87.5	88.5	0.67	0.79	0.85
		1755	112M	14.6	7.28	5.82	8.0	250%	350%	19	97	56	1.25	87.5	89.5	89.5	0.58	0.70	0.77
		1165	132M	15.8	7.90	6.32	6.6	190%	300%	43	146	52	1.25	85.5	88.5	89.5	0.50	0.63	0.71
		880	160M	16.3	8.17	6.54	5.2	200%	270%	47	251	54	1.25	84.0	86.5	86.5	0.49	0.62	0.71
5.5	7.5	3505	112M	18.1	9.07	7.26	8.8	330%	390%	18	88.2	69	1.25	87.5	88.5	89.5	0.68	0.79	0.85
		3530	132S	17.9	8.97	7.18	8.6	290%	410%	29	143	67	1.25	85.5	87.5	89.5	0.70	0.81	0.86
		1765	132S	18.1	9.07	7.26	10.1	260%	430%	18	152	56	1.25	88.5	91.0	91.7	0.65	0.77	0.83
		1170	132M/L	21.6	10.8	8.64	7.4	240%	350%	32	176	52	1.25	85.5	88.5	91.0	0.48	0.61	0.70
		1180	160M	19.0	9.48	7.58	7.0	240%	310%	34	254	59	1.25	88.5	90.2	91.0	0.61	0.73	0.80
		880	160M	22.2	11.1	8.88	5.3	200%	270%	36	271	54	1.25	85.5	86.5	87.5	0.49	0.62	0.71
7.5	10	3535	132S	24.6	12.3	9.84	9.1	330%	440%	21	152	67	1.25	86.5	89.5	90.2	0.68	0.79	0.85
		1770	132M	24.4	12.2	9.76	9.0	270%	430%	16	172	56	1.25	90.2	91.0	91.7	0.65	0.77	0.83
		1180	160M	26.2	13.1	10.5	7.4	270%	350%	25	269	59	1.25	87.5	89.5	91.0	0.59	0.72	0.79
		880	160L	30.4	15.2	12.2	5.7	240%	290%	26	320	54	1.25	86.5	87.5	88.5	0.49	0.62	0.70
9.2	12.5	3530	132M	29.2	14.6	11.7	9.0	320%	410%	20	172	67	1.25	88.5	90.2	91.0	0.73	0.83	0.87
		1775	160M	30.4	15.2	12.2	8.3	300%	370%	17	240	64	1.25	87.5	90.2	92.4	0.66	0.77	0.82
		1180	160L	31.4	15.7	12.6	7.5	270%	340%	22	302	59	1.25	88.5	90.2	91.7	0.60	0.73	0.80
		880	180M	32.2	16.1	12.9	7.0	220%	300%	20	381	54	1.25	88.5	89.5	89.5	0.62	0.74	0.80
11	15	3525	132M	34.4	17.2	13.8	8.7	300%	370%	15	172	67	1.25	88.5	90.2	91.0	0.74	0.84	0.88
		3555	160M	35.8	17.9	14.3	8.7	300%	430%	24	254	72	1.25	88.5	91.0	91.7	0.69	0.80	0.84
		1775	160L	36.4	18.2	14.6	8.3	310%	380%	16	271	64	1.25	89.5	91.7	92.4	0.63	0.75	0.82
		1775	160M	36.4	18.2	14.6	8.3	310%	380%	16	271	64	1.25	89.5	91.7	92.4	0.63	0.75	0.82
		1180	160L	37.6	18.8	15.0	7.5	280%	340%	20	315	59	1.25	88.5	90.2	91.7	0.61	0.73	0.80
		880	180L	39.0	19.5	15.6	7.6	260%	340%	16	408	54	1.25	88.5	89.5	89.5	0.59	0.71	0.79
15	20	3550	160M	48.8	24.4	19.5	8.4	300%	410%	18	262	72	1.25	89.5	91.7	91.7	0.69	0.80	0.84
		1775	160L	50.0	25.0	20.0	8.3	330%	400%	13	320	64	1.25	91.0	91.7	93.0	0.62	0.74	0.81
		1180	180L	49.4	24.7	19.8	9.2	300%	390%	13	425	59	1.25	91.0	91.7	91.7	0.68	0.79	0.83
		885	200L	56.0	28.0	22.4	5.2	200%	240%	44	518	56	1.25	89.5	91.0	91.0	0.55	0.67	0.74
18.5	25	3550	160L	59.8	29.9	23.9	8.9	330%	440%	15	300	72	1.25	90.2	91.7	92.4	0.69	0.80	0.84
		1775	180M	61.2	30.6	24.5	8.1	330%	380%	21	397	64	1.25	91.0	92.4	93.6	0.62	0.75	0.81
		1180	200L	61.6	30.8	24.6	7.0	260%	310%	25	492	62	1.25	91.0	91.7	93.0	0.62	0.74	0.81
		885	225S/M	63.2	31.6	25.3	7.0	190%	310%	43	831	60	1.25	93.0	93.0	93.0	0.60	0.72	0.79

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 60Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			230V	460V	575V								50%	75%	100%	50%	75%	100%
22	30	3555	180M	69.4	34.7	27.8	8.5	280%	410%	17	388	72	1.25	90.2	91.7	92.4	0.71	0.81	0.86
		1775	180L	72.0	36.0	28.8	8.6	350%	390%	19	437	64	1.25	91.0	92.4	93.6	0.65	0.76	0.82
		1180	200L	74.2	37.1	29.7	7.2	280%	330%	23	529	62	1.25	91.7	92.4	93.0	0.62	0.74	0.80
		885	225S/M	75.2	37.6	30.1	6.9	200%	320%	38	886	60	1.25	93.0	93.0	93.0	0.59	0.71	0.79
30	40	3565	200L	94.2	47.1	37.7	8.3	300%	330%	26	538	76	1.25	91.0	92.4	93.0	0.73	0.82	0.86
		1780	200L	98.8	49.4	39.5	8.2	300%	360%	19	536	66	1.25	91.7	93.0	94.1	0.63	0.75	0.81
		1185	225S/M	95.2	47.6	38.1	7.7	270%	330%	30	884	66	1.25	93.0	94.1	94.1	0.67	0.78	0.84
		890	250S/M	102	50.9	40.7	6.6	220%	260%	40	1080	60	1.25	93.0	93.6	93.6	0.60	0.72	0.79
37	50	3565	200L	115	57.7	46.2	8.3	300%	330%	22	584	76	1.25	91.7	93.0	93.6	0.72	0.82	0.86
		1780	200L	121	60.7	48.6	8.1	300%	360%	18	626	66	1.25	93.0	93.6	94.5	0.63	0.75	0.81
		1780	225S/M	117	58.5	46.8	8.6	310%	370%	25	864	67	1.25	93.0	94.1	94.5	0.68	0.79	0.84
		1185	250S/M	118	58.8	47.0	7.8	280%	330%	29	1071	68	1.25	93.6	94.1	94.1	0.69	0.79	0.84
		890	280S/M	128	64.1	51.3	6.7	200%	270%	45	1484	63	1.25	93.0	94.1	94.1	0.59	0.71	0.77
45	60	3565	225S/M	133	66.7	53.4	7.8	240%	340%	29	917	79	1.25	93.0	94.1	94.1	0.80	0.87	0.90
		1780	225S/M	140	69.9	55.9	8.2	320%	370%	24	926	67	1.25	93.6	94.5	95.0	0.69	0.79	0.85
		1190	280S/M	149	74.7	59.8	7.2	260%	340%	48	1495	69	1.25	93.0	94.5	94.5	0.62	0.74	0.80
		890	280S/M	154	77.0	61.6	6.4	190%	260%	42	1634	63	1.25	93.6	94.1	94.1	0.59	0.71	0.78
55	75	3570	250S/M	161	80.3	64.2	8.6	290%	370%	28	1069	79	1.25	93.6	94.5	94.5	0.80	0.87	0.90
		1785	250S/M	170	85.1	68.1	8.2	330%	310%	27	1118	68	1.25	93.6	94.5	95.4	0.67	0.79	0.85
		1190	280S/M	180	90.2	72.2	7.0	260%	330%	46	1594	69	1.25	93.6	94.5	94.5	0.64	0.75	0.81
		890	315S/M	187	93.7	75.0	6.6	190%	260%	63	2063	66	1.25	93.6	94.5	94.5	0.62	0.73	0.78
75	100	3570	250S/M	218	109	87.2	8.3	280%	350%	18	1102	79	1.25	94.1	95.0	95.0	0.83	0.89	0.91
		3580	280S/M	222	111	88.8	7.9	240%	350%	59	1603	81	1.25	92.4	94.1	94.5	0.80	0.87	0.90
		1780	250S/M	230	115	92.0	8.2	320%	300%	20	1171	68	1.25	94.1	95.0	95.4	0.70	0.81	0.86
		1785	280S/M	232	116	92.8	7.9	270%	340%	47	1607	73	1.25	93.0	94.5	95.4	0.72	0.81	0.85
		1190	315S/M	244	122	97.6	7.0	260%	310%	61	2121	70	1.25	94.1	95.0	95.0	0.64	0.75	0.81
		890	315S/M	254	127	102	6.5	200%	260%	60	2313	66	1.25	94.1	95.0	95.0	0.62	0.73	0.78
90	125	3580	280S/M	264	132	106	7.7	230%	330%	52	1680	81	1.25	93.0	94.5	95.0	0.82	0.88	0.90
		1785	280S/M	278	139	111	8.0	270%	340%	41	1713	73	1.25	93.6	95.0	95.4	0.71	0.81	0.85
		1190	315S/M	292	146	117	7.0	260%	310%	61	2310	70	1.25	94.5	95.4	95.4	0.64	0.75	0.81
		890	315S/M	304	152	122	6.8	210%	270%	55	2533	66	1.25	94.5	95.0	95.0	0.61	0.73	0.78
110	150	3580	280S/M	322	161	129	8.2	260%	360%	37	1806	81	1.25	93.6	95.0	95.0	0.81	0.87	0.90
		3585	315S/M	326	163	130	8.4	250%	370%	59	2121	81	1.25	92.4	94.1	95.0	0.78	0.86	0.89
		1785	280S/M	340	170	136	7.9	280%	300%	44	1949	73	1.25	94.5	95.4	95.8	0.72	0.81	0.85
		1790	315S/M	340	170	136	7.8	300%	320%	57	2227	75	1.25	93.6	95.0	95.8	0.71	0.81	0.85
		1190	315S/M	356	178	142	7.0	250%	270%	53	2438	70	1.25	95.0	95.8	95.8	0.64	0.75	0.81
		890	315L	372	186	149	6.7	210%	270%	49	3014	71	1.25	94.5	95.4	95.4	0.60	0.72	0.78
		890	315S/M	372	186	149	6.7	210%	270%	49	3014	66	1.25	94.5	95.4	95.4	0.60	0.72	0.78
		895	355M/L	372	186	149	7.0	120%	290%	103	3272	75	1.15	94.5	95.4	95.4	0.60	0.72	0.78
132	175	3580	315S/M	386	193	154	8.2	250%	340%	54	2310	81	1.25	93.6	94.5	95.4	0.82	0.88	0.90
		1790	315S/M	406	203	162	7.9	310%	330%	57	2414	75	1.25	94.1	95.4	96.2	0.72	0.81	0.85
		1190	315S/M	428	214	171	7.2	290%	320%	46	2623	70	1.25	95.0	95.8	95.8	0.63	0.75	0.81
		895	315L	446	223	178	6.9	230%	270%	47	3325	71	1.25	95.0	95.4	95.4	0.60	0.72	0.78
		895	355M/L	446	223	178	7.1	130%	280%	82	3499	75	1.15	94.5	95.4	95.4	0.61	0.73	0.78
150	200	3580	315S/M	438	219	175	8.5	260%	300%	46	2401	81	1.25	93.6	95.4	95.4	0.79	0.87	0.90
		1790	315S/M	456	228	182	7.8	280%	280%	43	2478	75	1.25	94.5	95.8	96.2	0.72	0.82	0.86
		1190	315L	480	240	192	7.3	280%	300%	41	3009	71	1.25	95.4	95.8	95.8	0.66	0.77	0.82
		1190	315S/M	480	240	192	7.3	280%	300%	25	3009	70	1.25	95.4	95.8	95.8	0.66	0.77	0.82

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 60 Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			230V	460V	575V								50%	75%	100%	50%	75%	100%
160	220	3580	315S/M	468	234	187	8.4	270%	350%	43	2489	81	1.25	94.1	95.0	95.4	0.81	0.88	0.90
		1790	315S/M	492	246	197	7.8	320%	320%	49	2540	75	1.25	94.5	95.4	96.2	0.72	0.82	0.85
		1190	315L	518	259	207	7.4	300%	320%	45	3192	71	1.25	95.4	95.8	95.8	0.64	0.76	0.81
		1195	355M/L	538	269	215	7.0	240%	290%	57	3514	77	1.15	94.5	95.4	95.8	0.60	0.72	0.78
		895	355M/L	530	265	212	7.0	120%	280%	83	3851	75	1.15	95.0	95.8	95.8	0.61	0.73	0.79
185	250	3580	315S/M	538	269	215	8.3	290%	340%	42	2639	81	1.25	94.5	95.4	95.8	0.82	0.88	0.90
		1790	315S/M	568	284	227	7.8	320%	310%	39	2694	75	1.25	95.0	95.8	96.2	0.72	0.81	0.85
		1195	355M/L	622	311	249	7.1	250%	290%	48	3673	77	1.15	94.3	95.4	95.8	0.60	0.72	0.78
		895	355M/L	622	311	249	7.1	140%	280%	64	4010	75	1.15	95.0	95.8	95.8	0.61	0.73	0.78
200	270	3580	315L	582	291	233	7.8	300%	350%	40	2877	82	1.25	94.5	95.4	95.8	0.81	0.88	0.90
		3585	355M/L	570	285	228	7.8	210%	330%	67	3388	84	1.15	94.5	95.4	95.8	0.85	0.90	0.92
		1790	315L	614	307	246	7.8	310%	310%	40	2937	77	1.25	95.0	95.8	96.2	0.72	0.82	0.85
		1790	315S/M	614	307	246	7.8	310%	310%	40	2937	75	1.25	95.0	95.8	96.2	0.72	0.82	0.85
		1790	355M/L	614	307	246	7.9	280%	320%	47	3296	78	1.15	95.0	95.8	96.2	0.71	0.80	0.85
		1195	355M/L	664	332	266	6.9	240%	280%	58	3834	77	1.15	94.2	95.4	95.8	0.62	0.73	0.79
		895	355M/L	664	332	266	6.8	120%	270%	70	4169	75	1.15	95.0	95.8	95.8	0.61	0.73	0.79
220	300	3580	315L	630	315	252	7.9	270%	320%	44	3020	82	1.25	95.4	95.8	96.2	0.84	0.89	0.91
		3585	355M/L	630	315	252	7.8	230%	330%	54	3494	84	1.15	94.5	95.8	96.2	0.84	0.90	0.91
		1790	315L	676	338	270	7.9	340%	330%	40	3153	77	1.25	95.4	95.8	96.2	0.72	0.81	0.85
		1790	355M/L	684	342	274	7.9	270%	320%	46	3426	78	1.15	95.0	96.2	96.2	0.70	0.80	0.84
		1195	355M/L	740	370	296	7.0	260%	290%	50	4087	77	1.15	94.8	95.8	95.8	0.60	0.72	0.78
250	340	3580	315L	716	358	286	7.8	280%	320%	34	3161	82	1.25	95.4	96.2	96.2	0.84	0.90	0.91
		3585	355M/L	716	358	286	7.9	240%	330%	54	3671	84	1.15	94.5	95.8	96.2	0.86	0.90	0.91
		1790	315L	768	384	307	7.9	350%	340%	38	3366	77	1.25	95.4	96.2	96.2	0.71	0.81	0.85
		1790	355M/L	768	384	307	7.8	280%	310%	44	3574	78	1.15	95.0	96.2	96.2	0.72	0.81	0.85
		1195	355M/L	838	419	335	7.0	260%	280%	51	4343	77	1.15	95.1	95.5	95.9	0.61	0.73	0.78
260	350	3585	355M/L	746	373	298	7.9	240%	330%	55	3671	84	1.15	94.5	95.8	96.2	0.86	0.90	0.91
		1790	315L	768	384	307	7.9	350%	340%	38	3366	77	1.25	95.4	96.2	96.2	0.71	0.81	0.85
		1790	355M/L	798	399	319	7.8	280%	310%	44	3574	78	1.15	95.0	96.2	96.2	0.72	0.81	0.85
		1195	355M/L	872	436	349	7.0	260%	280%	51	4343	77	1.15	95.1	95.5	95.9	0.61	0.73	0.78
280	380	3585	355M/L	794	397	318	7.9	230%	300%	41	3860	84	1.15	94.5	95.8	96.2	0.88	0.92	0.92
		1790	355M/L	860	430	344	7.9	290%	320%	42	3737	78	1.15	95.4	96.2	96.2	0.72	0.81	0.85
		1195	355M/L	938	469	375	7.0	240%	270%	38	4343	77	1.15	95.1	95.7	96.0	0.61	0.73	0.78
315	430	3585	355M/L	894	447	358	7.9	250%	310%	45	4052	84	1.15	95.4	96.2	96.2	0.88	0.92	0.92
		1790	355M/L	976	488	390	8.1	310%	350%	41	3907	78	1.15	95.4	96.2	96.5	0.68	0.79	0.84
355	480	1790	355M/L	1086	543	434	7.8	270%	290%	37	4140	78	1.15	95.8	96.2	96.5	0.74	0.83	0.85

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 50 Hz (380V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			380V								50%	75%	100%	50%	75%	100%
0.12	0.16	2795	63	0.36	5.4	290%	290%	30	14	52	1.00	59.0	63.5	64.8	0.58	0.71	0.79
		1355	63	0.37	4.4	180%	200%	30	12	44	1.00	58.6	64.0	64.8	0.56	0.69	0.76
		910	63	0.50	3.1	180%	200%	30	17	43	1.00	48.7	54.7	57.7	0.40	0.53	0.63
		635	71	0.64	2.4	150%	180%	30	25	41	1.00	46.6	51.7	52.9	0.38	0.46	0.54
0.18	0.25	2775	63	0.50	5.2	280%	290%	22	15	52	1.00	62.6	66.6	66.7	0.59	0.73	0.82
		1355	63	0.52	4.7	180%	210%	30	16	44	1.00	65.0	67.0	69.9	0.57	0.67	0.75
		885	71	0.67	3.2	180%	190%	30	25	43	1.00	57.7	62.8	63.9	0.43	0.55	0.64
		670	80	0.68	3.3	190%	210%	30	30	42	1.00	52.8	58.0	58.7	0.48	0.59	0.69
0.25	0.33	2780	63	0.67	5.5	290%	290%	17	16	52	1.00	64.6	68.7	69.7	0.59	0.73	0.81
		1375	71	0.69	4.8	190%	200%	30	18	43	1.00	67.0	69.1	73.5	0.56	0.69	0.75
		950	80	0.75	4.1	150%	220%	25	27	43	1.00	65.9	68.0	68.6	0.51	0.64	0.74
		685	80	0.88	3.5	190%	210%	30	32	42	1.00	54.0	60.0	64.1	0.44	0.57	0.67
0.37	0.5	2795	71	0.88	6	210%	230%	12	17	56	1.00	73.6	73.8	73.8	0.71	0.82	0.87
		1370	71	1.01	4.8	250%	260%	30	21	43	1.00	73.0	75.0	77.3	0.53	0.64	0.72
		915	80	0.97	4.5	180%	200%	25	28	43	1.00	67.6	69.9	73.5	0.55	0.69	0.79
		700	90S	1.23	3.7	150%	200%	30	42	43	1.00	61.0	66.0	69.3	0.44	0.56	0.66
0.55	0.75	2740	71	1.22	5.9	270%	270%	18	19	56	1.00	75.6	75.7	77.8	0.73	0.84	0.88
		1410	80	1.25	6.6	240%	260%	20	28	44	1.00	78.0	79.1	80.8	0.65	0.77	0.83
		950	90S	1.46	5.1	200%	250%	35	42	45	1.00	76.0	77.0	77.2	0.52	0.66	0.74
		690	90L	1.64	3.8	160%	180%	29	51	43	1.00	65.0	70.0	73.0	0.49	0.62	0.70
0.75	1	2805	80	1.64	7.5	310%	310%	25	29.8	59	1.00	80.9	82.2	81.6	0.68	0.80	0.85
		1450	90S	1.63	7.8	210%	290%	21	40.8	49	1.00	83.2	84.1	84.0	0.64	0.76	0.83
		940	90L	1.90	5.0	220%	250%	26	55.1	45	1.00	78.9	80.5	79.8	0.52	0.67	0.75
		705	100L	2.30	4.6	160%	200%	30	67.2	50	1.00	73.9	76.1	75.1	0.44	0.57	0.66
1.1	1.5	2810	80	2.37	7.4	330%	320%	23	33.1	59	1.00	82.0	83.7	83.1	0.69	0.80	0.85
		1450	90S	2.39	7.6	220%	290%	15	43.0	49	1.00	84.0	84.7	84.3	0.64	0.76	0.83
		700	100L	3.34	4.6	170%	210%	30	72.8	50	1.00	74.9	76.8	75.8	0.45	0.58	0.66
1.5	2	2860	90S	3.18	7.6	290%	290%	15	40.8	62	1.00	83.7	85.0	84.4	0.69	0.80	0.85
		1445	90L	3.21	7.4	230%	300%	13	50.7	49	1.00	85.0	86.2	85.6	0.63	0.76	0.83
		950	L100L	3.63	5.2	200%	250%	-	83.8	-	1.25	82.0	82.5	82.5	0.56	0.69	0.76
		700	112M	4.02	5.0	220%	240%	28	94.8	46	1.00	79.9	80.6	79.8	0.49	0.63	0.71
2.2	3	2855	90L	4.52	7.5	300%	310%	12	51.8	62	1.00	86.5	86.4	85.9	0.70	0.81	0.86
		1430	100L	4.66	7.4	280%	300%	18	69.4	53	1.00	87.2	87.1	86.7	0.65	0.77	0.83
		1445	112M	4.60	6.8	170%	260%	31	90.4	56	1.00	87.9	88.1	87.6	0.66	0.77	0.83
		965	132S	5.19	5.1	150%	240%	30	139	53	1.00	86.5	87.5	87.1	0.55	0.67	0.74
		705	132S	5.37	6.2	190%	210%	27	152	48	1.00	82.9	82.6	81.9	0.57	0.68	0.76
3	4	2900	100L	5.95	8.5	300%	300%	15	70.5	67	1.00	86.0	87.4	87.1	0.75	0.84	0.88
		1430	L100L	6.26	7.8	310%	330%	13	82.7	53	1.00	87.7	88.0	87.7	0.65	0.77	0.83
		965	132S	6.82	6.0	170%	220%	28	134	53	1.00	87.5	88.0	88.0	0.56	0.69	0.76
		705	132M	7.33	6.4	200%	220%	21	165	48	1.00	83.4	83.7	82.9	0.56	0.68	0.75
4	5.5	2890	112M	7.75	7.7	260%	310%	22	90.4	64	1.00	88.6	89.2	89.1	0.73	0.83	0.88
		1445	112M	8.47	7.0	200%	270%	15	97.0	56	1.00	89.3	89.0	88.6	0.65	0.76	0.81
		955	132M	9.21	6.5	190%	210%	30	146	52	1.00	86.6	86.9	86.8	0.57	0.70	0.76
		720	160M	9.54	5.0	180%	210%	34	251	51	1.00	85.6	86.8	86.1	0.56	0.68	0.74
5.5	7.5	2880	112M	10.6	7.4	270%	310%	15	88.2	64	1.25	88.5	89.0	89.2	0.74	0.84	0.88
		2920	132S	10.5	8.3	230%	280%	23	143	67	1.00	88.7	89.7	89.7	0.76	0.85	0.89
		1460	132S	10.6	9.6	210%	300%	15	152	56	1.00	90.4	90.7	90.3	0.71	0.82	0.87
		960	132M/L	12.7	7.0	220%	240%	26	176	52	1.00	87.4	88.3	88.0	0.55	0.68	0.75
		975	160M	11.2	5.6	180%	230%	36	254	56	1.25	89.5	89.9	88.8	0.68	0.79	0.84
		720	160M	12.6	5.0	180%	210%	28	271	51	1.00	86.7	87.3	87.2	0.56	0.68	0.76
7.5	10	2925	132S	14.3	8.5	260%	300%	17	152	67	1.00	89.6	90.6	90.6	0.74	0.84	0.88
		1460	132M	14.4	8.5	220%	300%	13	172	56	1.00	91.4	91.5	91.2	0.72	0.82	0.86
		970	160M	15.2	6.5	200%	260%	20	269	56	1.00	89.8	90.3	90.4	0.67	0.77	0.83
		720	160L	16.9	5.3	190%	220%	22	320	51	1.00	87.8	88.5	88.6	0.56	0.69	0.76
9.2	12.5	2920	132M	17.1	8.5	250%	290%	16	172	67	1.00	90.7	91.0	90.8	0.79	0.87	0.90
		1470	160M	18.0	7.2	220%	270%	16	240	61	1.00	90.4	91.5	91.6	0.70	0.80	0.85
		970	160L	18.6	6.5	200%	260%	18	302	56	1.00	90.4	90.6	90.6	0.68	0.78	0.83
		720	180M	18.7	6.0	170%	230%	15	381	51	1.00	89.2	89.1	88.9	0.67	0.78	0.84
11	15	2915	132M	20.4	8.2	240%	260%	11	172	67	1.00	90.9	91.0	91.2	0.80	0.87	0.90
		2945	160M	20.8	8.0	240%	310%	17	254	67	1.00	91.3	92.3	92.5	0.75	0.84	0.87
		1465	160L	21.1	7.0	220%	270%	17	271	61	1.00	91.3	91.7	91.7	0.69	0.79	0.85
		1465	160M	21.1	7.0	220%	270%	17	271	61	1.00	91.3	91.7	91.7	0.69	0.79	0.85
		970	160L	22.2	6.5	210%	270%	16	315	56	1.00	90.5	90.8	90.8	0.66	0.77	0.83
		720	180L	24.2	6.5	200%	240%	12	408	51	1.00	90.0	90.0	89.8	0.59	0.71	0.77
15	20	2945	160M	28.0	8.0	230%	290%	12	262	67	1.00	91.8	92.5	92.6	0.75	0.84	0.88
		1465	160L	29.2	7.3	240%	280%	10	320	61	1.00	92.2	92.5	93.0	0.69	0.79	0.84
		970	180L	29.3	7.7	230%	280%	10	425	56	1.00	91.5	91.5	91.5	0.68	0.80	0.85
		730	200L	33.0	4.9	170%	190%	34	518	56	1.00	90.5	91.0	91.0	0.60	0.71	0.76

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 50 Hz (380V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			380V								50%	75%	100%	50%	75%	100%
18.5	25	2945	160L	34.3	8.4	250%	320%	8	300	67	1.00	92.4	92.9	93.0	0.74	0.83	0.88
		1465	180M	35.9	7.3	240%	270%	20	397	61	1.00	92.5	92.9	93.1	0.68	0.79	0.84
		980	200L	36.3	6.2	190%	250%	19	492	60	1.00	92.2	92.4	92.2	0.69	0.79	0.84
		730	225S/M	36.7	6.5	150%	220%	28	831	56	1.00	93.1	92.8	92.2	0.67	0.78	0.83
22	30	2950	180M	40.7	8.0	220%	290%	11	388	67	1.00	92.7	93.2	93.4	0.77	0.84	0.88
		1465	180L	42.1	7.3	250%	290%	18	437	61	1.00	92.8	93.1	93.4	0.70	0.80	0.85
		980	200L	42.9	6.3	200%	260%	18	529	60	1.00	92.5	92.7	92.7	0.69	0.79	0.84
		730	225S/M	43.5	6.5	160%	220%	22	886	56	1.00	93.1	92.9	92.5	0.67	0.78	0.83
30	40	2960	200L	55.1	7.3	230%	260%	20	538	72	1.00	93.1	94.0	94.0	0.77	0.85	0.88
		1480	200L	57.7	7.3	220%	270%	16	536	63	1.00	93.3	93.8	94.1	0.69	0.79	0.84
		980	225S/M	56.6	7.4	200%	250%	17	884	63	1.00	93.8	93.8	93.6	0.73	0.82	0.86
		730	250S/M	57.8	7.4	160%	250%	18	1080	56	1.00	93.4	93.1	92.7	0.70	0.80	0.85
37	50	2960	200L	67.7	7.3	240%	260%	17	584	72	1.00	93.5	94.0	94.4	0.78	0.85	0.88
		1480	200L	70.9	7.0	230%	270%	14	626	63	1.00	93.7	94.1	94.4	0.69	0.79	0.84
		1475	225S/M	68.5	7.8	240%	270%	14	864	63	1.00	94.1	94.5	94.3	0.76	0.83	0.87
		980	250S/M	69.7	7.4	190%	240%	17	1071	64	1.00	93.8	94.0	93.8	0.74	0.82	0.86
		740	280S/M	73.9	6.0	160%	200%	32	1484	59	1.00	93.9	94.1	93.9	0.67	0.76	0.81
45	60	2965	225S/M	80.1	8.0	210%	290%	12	917	74	1.00	94.6	94.9	94.8	0.79	0.86	0.90
		1475	225S/M	83.9	7.9	250%	270%	13	926	63	1.00	94.3	94.7	94.7	0.77	0.82	0.86
		990	280S/M	85.9	6.8	190%	240%	32	1495	65	1.00	94.2	94.7	94.7	0.69	0.78	0.84
		740	280S/M	90.8	6.0	160%	200%	30	1634	59	1.00	94.1	94.4	94.1	0.67	0.76	0.80
55	75	2960	250S/M	97.6	8.3	230%	260%	14	1069	74	1.00	94.9	95.0	95.1	0.82	0.87	0.89
		1475	250S/M	100	7.9	250%	230%	14	1118	64	1.00	94.7	94.9	95.1	0.75	0.83	0.88
		985	280S/M	106	6.7	190%	240%	28	1594	65	1.00	94.6	94.9	95.0	0.70	0.79	0.83
		740	315S/M	109	6.0	150%	200%	40	2063	62	1.00	94.5	94.7	94.5	0.69	0.77	0.81
75	100	2960	250S/M	133	7.9	230%	230%	11	1102	74	1.00	95.0	95.1	95.1	0.85	0.88	0.90
		2975	280S/M	131	7.6	200%	260%	32	1603	77	1.00	94.6	95.2	95.4	0.84	0.89	0.91
		1475	250S/M	136	8.4	250%	220%	8	1171	64	1.00	95.0	95.0	95.0	0.77	0.86	0.88
		1480	280S/M	136	7.6	200%	250%	26	1607	69	1.00	94.8	95.2	95.4	0.78	0.85	0.88
		990	315S/M	142	6.7	190%	230%	32	2121	67	1.00	95.2	95.6	95.6	0.71	0.80	0.84
		740	315S/M	148	6.0	160%	160%	40	2313	62	1.00	94.7	95.0	94.8	0.69	0.77	0.81
90	125	2975	280S/M	159	7.4	200%	250%	30	1680	77	1.00	94.9	95.5	95.6	0.86	0.90	0.90
		1480	280S/M	164	7.7	200%	250%	25	1713	69	1.00	95.1	95.4	95.6	0.77	0.84	0.87
		990	315S/M	170	6.7	190%	220%	34	2310	67	1.00	95.4	95.8	95.9	0.71	0.80	0.84
		740	315S/M	178	6.0	160%	190%	40	2533	62	1.00	95.1	95.1	95.0	0.69	0.77	0.81
110	150	2975	280S/M	192	7.9	210%	260%	21	1806	77	1.00	94.9	95.6	95.8	0.84	0.89	0.91
		2975	315S/M	193	7.6	190%	270%	30	2121	77	1.00	94.8	95.7	96.0	0.83	0.89	0.90
		1485	280S/M	198	7.6	210%	250%	24	1949	69	1.00	95.5	95.7	95.8	0.77	0.85	0.88
		1490	315S/M	200	7.5	230%	240%	30	2227	71	1.00	95.5	95.9	96.2	0.77	0.85	0.87
		990	315S/M	207	6.8	210%	230%	32	2438	67	1.00	95.6	96.0	96.0	0.71	0.80	0.84
		740	315L	217	6.0	160%	200%	35	3014	68	1.00	95.2	95.3	95.1	0.68	0.77	0.81
		740	315S/M	217	6.0	160%	200%	35	3014	62	1.00	95.2	95.3	95.1	0.68	0.77	0.81
		740	355M/L	217	6.4	130%	200%	41	3272	70	1.00	94.0	95.2	95.1	0.65	0.76	0.81
132	175	2975	315S/M	232	7.5	190%	250%	30	2310	77	1.00	95.3	95.8	96.1	0.85	0.90	0.90
		1490	315S/M	239	7.6	220%	230%	26	2414	71	1.00	95.6	96.0	96.3	0.78	0.85	0.87
		990	315S/M	248	7.2	220%	240%	26	2623	67	1.00	95.8	96.1	96.1	0.71	0.80	0.84
		740	315L	260	6.0	170%	200%	34	3325	68	1.00	95.5	95.6	95.4	0.68	0.77	0.81
		740	355M/L	260	6.5	140%	200%	47	3499	70	1.00	94.5	95.4	95.3	0.66	0.75	0.81
150	200	2980	315S/M	260	7.9	200%	260%	36	2401	77	1.25	95.5	96.1	96.2	0.83	0.89	0.91
		1490	315S/M	273	7.0	220%	220%	37	2478	71	1.25	95.8	96.1	96.1	0.77	0.85	0.87
		990	315L	282	7.1	220%	250%	25	3009	68	1.00	95.8	96.1	96.1	0.70	0.80	0.84
		990	315S/M	282	7.1	220%	250%	25	3009	67	1.00	95.8	96.1	96.1	0.70	0.80	0.84

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 50 Hz (380V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			380V								50%	75%	100%	50%	75%	100%
160	220	2975	315S/M	274	7.9	210%	250%	24	2489	77	1.00	95.7	96.1	96.4	0.85	0.90	0.92
		1490	315S/M	287	7.6	230%	230%	22	2540	71	1.00	95.8	96.2	96.3	0.78	0.85	0.88
		990	315L	301	7.4	230%	240%	24	3192	68	1.00	95.9	96.2	96.2	0.71	0.80	0.84
		995	355M/L	310	6.2	180%	240%	60	3514	73	1.00	94.6	95.2	95.6	0.67	0.77	0.82
		745	355M/L	309	6.4	110%	210%	56	3851	70	1.00	95.6	95.8	95.9	0.68	0.78	0.82
185	250	2975	315S/M	324	7.8	200%	250%	22	2639	77	1.00	95.4	96.1	96.3	0.85	0.90	0.90
		1485	315S/M	332	7.6	220%	220%	18	2694	71	1.00	95.9	96.3	96.3	0.77	0.85	0.88
		990	355M/L	363	6.6	190%	220%	34	3673	73	1.00	95.4	95.8	95.8	0.68	0.77	0.81
		745	355M/L	357	6.3	110%	210%	56	4010	70	1.00	95.8	96.0	95.9	0.68	0.78	0.82
200	270	2975	315L	346	8.2	230%	250%	17	2877	78	1.00	96.0	96.4	96.5	0.85	0.90	0.91
		2980	355M/L	345	7.2	160%	240%	70	3388	80	1.00	93.9	95.2	95.8	0.90	0.92	0.92
		1485	315L	358	7.6	220%	220%	20	2937	73	1.00	96.2	96.5	96.5	0.77	0.85	0.88
		1485	315S/M	358	7.6	220%	220%	20	2937	71	1.00	96.2	96.5	96.5	0.77	0.85	0.88
		1490	355M/L	366	7.6	230%	220%	22	3296	74	1.00	96.1	96.5	96.6	0.75	0.83	0.86
		995	355M/L	386	6.5	180%	210%	40	3834	73	1.00	95.6	96.1	96.1	0.68	0.78	0.82
		745	355M/L	386	6.2	110%	210%	56	4169	70	1.00	95.8	96.1	96.0	0.69	0.79	0.82
220	300	2975	315L	381	7.7	210%	230%	24	3020	78	1.00	93.1	96.4	96.5	0.86	0.90	0.91
		2985	355M/L	377	8.5	200%	280%	65	3494	80	1.00	95.5	96.2	96.4	0.87	0.91	0.92
		1490	315L	398	7.8	230%	230%	16	3153	73	1.00	96.2	96.6	96.6	0.77	0.85	0.87
		1490	355M/L	402	7.4	220%	220%	20	3426	74	1.00	96.2	96.6	96.7	0.75	0.82	0.86
		995	355M/L	424	6.5	190%	210%	36	4087	73	1.00	95.7	96.1	96.2	0.68	0.78	0.82
250	340	2975	315L	432	7.8	220%	240%	17	3161	78	1.00	96.4	96.5	96.6	0.88	0.91	0.91
		2980	355M/L	424	7.8	150%	230%	65	3671	80	1.00	95.5	96.3	96.4	0.89	0.92	0.93
		1490	315L	451	8.0	240%	230%	16	3366	73	1.00	96.4	96.6	96.8	0.77	0.84	0.87
		1490	355M/L	456	7.3	210%	220%	16	3574	74	1.00	96.3	96.6	96.8	0.76	0.84	0.86
		995	355M/L	482	6.5	200%	220%	38	4343	73	1.00	95.7	96.1	96.2	0.68	0.78	0.82
260	350	2980	355M/L	441	7.8	150%	230%	65	3671	80	1.00	95.5	96.3	96.4	0.89	0.92	0.93
		1490	315L	469	8.0	240%	230%	16	3366	73	1.00	96.4	96.6	96.8	0.77	0.84	0.87
		1490	355M/L	475	7.3	210%	220%	16	3574	74	1.00	96.3	96.6	96.8	0.76	0.84	0.86
		995	355M/L	501	6.5	200%	220%	38	4343	73	1.00	95.7	96.1	96.2	0.68	0.78	0.82
280	380	2975	355M/L	490	7.9	210%	250%	12	3860	80	1.00	95.2	95.5	95.8	0.87	0.90	0.91
		1490	355M/L	505	7.3	210%	210%	20	3737	74	1.00	96.4	96.7	96.8	0.77	0.85	0.87
		995	355M/L	538	6.5	180%	220%	38	4343	73	1.00	95.4	96.2	96.4	0.68	0.78	0.82
315	430	2980	355M/L	543	7.8	190%	230%	23	4052	80	1.00	94.2	95.5	95.8	0.89	0.92	0.92
		1490	355M/L	568	7.3	210%	210%	22	3907	74	1.00	96.5	96.7	96.8	0.77	0.85	0.87
355	480	1490	355M/L	640	7.2	220%	220%	15	4140	74	1.00	96.6	96.8	96.8	0.77	0.85	0.87

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 50Hz (415V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			380V								50%	75%	100%	50%	75%	100%
0.12	0.16	2835	63	0.35	5.4	360%	360%	30	14	52	1.00	57.0	62.4	64.9	0.51	0.64	0.73
		1380	63	0.36	4.4	230%	250%	30	12	44	1.00	55.6	63.0	64.8	0.50	0.62	0.72
		930	63	0.52	3.1	240%	260%	30	17	43	1.00	55.0	57.7	0.7	0.39	0.47	0.56
		655	71	0.68	2.4	180%	200%	30	25	41	1.00	41.8	48.2	51.4	0.34	0.41	0.48
0.18	0.25	2815	63	0.51	5.2	350%	350%	22	15	52	1.00	59.6	65.2	66.7	0.51	0.64	0.74
		1380	63	0.51	4.7	240%	270%	30	16	44	1.00	65.0	67.0	69.9	0.50	0.61	0.70
		910	71	0.69	3.2	220%	230%	30	25	43	1.00	54.5	61.2	63.9	0.38	0.48	0.57
		685	80	0.69	3.3	220%	240%	30	30	42	1.00	49.3	56.0	58.7	0.43	0.53	0.62
0.25	0.33	2820	63	0.67	5.5	350%	350%	17	16	52	1.00	61.5	67.2	69.7	0.51	0.64	0.74
		1400	71	0.69	4.8	240%	250%	30	18	43	1.00	65.1	68.6	73.5	0.50	0.62	0.69
		960	80	0.74	4.4	180%	270%	25	27	43	1.00	61.7	68.2	68.8	0.45	0.57	0.68
		700	80	0.90	3.5	240%	270%	30	32	42	1.00	56.0	62.0	64.3	0.39	0.50	0.60
0.37	0.5	2825	71	0.84	6	270%	280%	12	17	56	1.00	72.4	73.8	73.8	0.63	0.76	0.83
		1395	71	0.98	4.8	310%	320%	30	21	43	1.00	73.0	75.0	77.3	0.47	0.59	0.68
		930	80	0.97	4.5	220%	230%	25	28	43	1.00	64.3	68.8	73.5	0.48	0.62	0.72
		710	90S	1.26	3.7	200%	250%	30	42	43	1.00	62.0	67.0	69.5	0.38	0.50	0.59
0.55	0.75	2790	71	1.17	5.9	330%	330%	18	19	56	1.00	74.4	76.0	77.8	0.65	0.78	0.84
		1430	80	1.23	6.6	320%	350%	20	28	44	1.00	76.0	78.9	80.8	0.57	0.71	0.77
		960	90S	1.45	5.7	250%	310%	35	42	45	1.00	77.2	77.5	77.6	0.45	0.59	0.68
		705	90L	1.64	3.8	210%	230%	29	51	43	1.00	65.0	70.0	73.0	0.42	0.55	0.64
0.75	1	2835	80	1.61	7.5	380%	380%	25	29.8	59	1.00	79.1	81.7	82.1	0.59	0.72	0.79
		1460	90S	1.58	7.8	260%	360%	21	40.8	49	1.00	81.8	83.8	84.6	0.56	0.70	0.78
		950	90L	1.84	5.8	290%	330%	26	55.1	45	1.00	77.2	80.2	80.8	0.47	0.60	0.70
		715	100L	2.34	4.6	220%	270%	30	67.2	50	1.00	71.1	74.8	75.5	0.38	0.50	0.59
1.1	1.5	2840	80	2.32	7.4	390%	390%	23	33.1	59	1.00	80.0	83.0	83.4	0.58	0.72	0.79
		1460	90S	2.34	7.6	270%	360%	15	43.0	49	1.00	82.0	84.1	84.8	0.55	0.69	0.77
		710	100L	3.43	4.6	230%	260%	30	72.8	50	1.00	71.1	74.9	75.7	0.38	0.50	0.59
1.5	2	2885	90S	3.06	7.6	360%	360%	15	40.8	62	1.00	82.2	84.8	85.2	0.59	0.72	0.80
		1454	90L	3.15	7.4	280%	370%	13	50.7	49	1.00	83.1	85.7	86.1	0.54	0.68	0.77
		955	L100L	3.56	6.1	260%	310%	-	83.8	-	1.25	82.0	82.5	82.5	0.49	0.63	0.71
		710	112M	3.97	5.0	280%	310%	28	94.8	46	1.00	77.9	80.2	80.8	0.42	0.56	0.65
2.2	3	2880	90L	4.37	7.5	380%	380%	12	51.8	62	1.00	85.3	86.4	86.5	0.61	0.74	0.81
		1440	100L	4.50	7.4	350%	380%	18	69.4	53	1.00	85.7	86.8	87.2	0.57	0.70	0.78
		1455	112M	4.38	6.8	230%	320%	31	90.4	56	1.00	87.2	88.2	88.5	0.59	0.72	0.79
		973	132S	4.99	6.1	200%	290%	30	139	53	1.00	85.6	87.4	87.7	0.48	0.61	0.70
		715	132S	5.27	6.2	260%	280%	27	152	48	1.00	81.2	82.3	82.9	0.48	0.62	0.70
3	4	2915	100L	5.68	8.5	370%	360%	15	70.5	67	1.00	85.0	87.2	87.4	0.66	0.78	0.84
		1445	L100L	6.07	7.8	380%	400%	15	82.7	53	1.00	86.3	87.7	88.1	0.56	0.70	0.78
		975	132S	6.70	6.0	230%	280%	28	134	53	1.00	85.8	87.8	87.8	0.49	0.62	0.71
		715	132M	7.12	6.4	270%	300%	21	165	48	1.00	81.5	83.2	83.7	0.48	0.61	0.70
4	5.5	2905	112M	7.39	7.7	320%	380%	22	90.4	64	1.00	87.5	89.0	89.6	0.65	0.77	0.84
		1455	112M	8.09	7.0	260%	340%	15	97.0	-	1.00	88.2	88.9	89.3	0.57	0.70	0.77
		965	132M	9.02	6.5	240%	280%	30	146	52	1.00	85.4	86.6	86.9	0.50	0.63	0.71
		730	160M	8.21	5.0	230%	250%	34	251	51	1.00	84.4	86.6	86.8	0.49	0.62	0.70
5.5	7.5	2900	112M	10.2	8.4	340%	370%	14	88.2	64	1.00	87.5	89.0	89.2	0.65	0.77	0.84
		2935	132S	10.0	8.3	290%	350%	23	143	67	1.00	87.8	89.6	90.1	0.68	0.79	0.85
		1470	132S	10.2	9.6	260%	370%	15	152	56	1.00	89.6	90.7	90.8	0.64	0.76	0.83
		965	132M/L	12.6	7.0	280%	320%	26	176	52	1.00	85.8	87.7	88.0	0.47	0.61	0.69
		980	160M	10.7	6.5	230%	290%	31	254	56	1.00	88.7	90.0	89.5	0.61	0.74	0.80
		730	160M	12.3	5.0	230%	250%	28	271	51	1.00	85.2	87.0	87.8	0.49	0.62	0.71
7.5	10	2940	132S	13.8	8.5	330%	370%	17	152	67	1.00	88.6	90.3	90.8	0.65	0.77	0.83
		1470	132M	13.5	8.5	280%	370%	13	172	56	1.00	90.5	91.4	91.7	0.64	0.76	0.83
		975	160M	14.5	6.5	250%	310%	20	269	56	1.00	88.8	90.2	90.8	0.60	0.71	0.79
		725	160L	16.5	5.3	240%	270%	22	320	51	1.00	86.2	88.0	88.9	0.49	0.62	0.71
9.2	12.5	2935	132M	16.1	8.5	320%	360%	16	172	67	1.00	90.1	91.0	91.3	0.71	0.82	0.87
		1475	160M	17.2	7.2	270%	330%	16	240	61	1.00	89.5	91.2	91.9	0.63	0.74	0.81
		975	160L	17.8	6.5	250%	320%	18	302	56	1.00	89.6	90.5	91.2	0.61	0.73	0.79
		730	180M	17.8	6.0	220%	280%	15	381	51	1.00	88.6	89.3	90.0	0.60	0.73	0.80
11	15	2930	132M	19.2	8.2	300%	330%	11	172	67	1.00	90.2	91.1	91.4	0.72	0.82	0.87
		2955	160M	19.9	8.0	290%	380%	17	254	67	1.00	90.7	92.2	92.8	0.68	0.79	0.83
		1470	160L	20.5	7.0	270%	330%	17	271	61	1.00	90.7	91.7	92.3	0.62	0.74	0.81
		1470	160M	20.5	7.0	270%	330%	17	271	61	1.00	90.7	91.7	92.3	0.62	0.74	0.81
		975	160L	21.2	6.5	260%	330%	16	315	56	1.00	89.5	90.7	91.3	0.59	0.71	0.79
		725	180L	22.9	6.5	250%	290%	12	408	51	1.00	89.0	89.9	90.5	0.52	0.65	0.74
15	20	2955	160M	26.7	8.0	280%	360%	12	262	67	1.00	91.2	92.4	93.0	0.68	0.79	0.84
		1470	160L	28.0	7.3	290%	350%	10	320	61	1.00	91.4	92.4	93.0	0.62	0.74	0.80
		975	180L	26.6	7.7	230%	290%	10	425	56	1.00	91.6	92.0	92.3	0.69	0.80	0.85
		730	200L	31.7	4.9	210%	230%	34	518	56	1.00	89.4	90.8	91.5	0.53	0.65	0.72

W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Electrical Data - 50Hz (415V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			380V								50%	75%	100%	50%	75%	100%
18.5	25	2955	160L	32.8	8.4	310%	390%	8	300	67	1.00	91.6	92.8	93.3	0.66	0.77	0.84
		1470	180M	34.4	7.3	290%	330%	20	397	61	1.00	91.8	92.8	93.4	0.61	0.73	0.80
		980	200L	34.7	6.2	240%	300%	19	492	60	1.00	91.2	92.1	92.6	0.61	0.73	0.80
		735	225S/M	34.6	6.5	190%	270%	28	831	56	1.00	92.8	93.0	92.9	0.60	0.73	0.80
22	30	2960	180M	37.9	8.0	270%	360%	11	388	67	1.00	92.3	93.3	93.8	0.70	0.80	0.86
		1470	180L	40.4	7.3	310%	360%	18	437	61	1.00	91.9	92.8	93.6	0.62	0.74	0.81
		980	200L	41.2	6.3	250%	320%	18	529	60	1.00	91.4	92.4	92.9	0.61	0.73	0.80
		735	225S/M	41.6	6.5	200%	270%	22	886	56	1.00	92.8	93.1	93.2	0.60	0.73	0.79
30	40	2970	200L	52.7	7.3	280%	310%	20	538	72	1.00	92.6	93.9	94.2	0.69	0.79	0.84
		1480	200L	55.4	7.3	270%	330%	16	536	63	1.00	92.4	93.4	94.2	0.60	0.72	0.80
		985	225S/M	52.7	7.4	250%	300%	17	884	63	1.00	93.5	94.0	94.2	0.67	0.78	0.84
		735	250S/M	52.6	7.4	210%	310%	18	1080	56	1.00	93.1	93.3	93.4	0.63	0.75	0.85
37	50	2970	200L	64.7	7.3	270%	310%	17	584	72	1.00	93.1	93.9	94.7	0.69	0.79	0.84
		1480	200L	68.1	7.0	280%	330%	14	626	63	1.00	92.9	93.8	94.5	0.60	0.73	0.80
		1480	225S/M	63.9	7.8	300%	330%	14	864	63	1.00	93.8	94.6	94.7	0.69	0.79	0.85
		985	250S/M	64.8	7.4	250%	290%	17	1071	64	1.00	93.8	94.4	94.6	0.69	0.79	0.84
		740	280S/M	70.9	6.0	200%	250%	32	1484	59	1.00	93.4	94.1	94.3	0.60	0.71	0.77
45	60	2970	225S/M	74.6	8.0	260%	340%	12	917	74	1.00	94.5	95.2	95.3	0.75	0.84	0.88
		1480	225S/M	78.6	7.9	310%	330%	13	926	63	1.00	94.0	94.8	94.8	0.67	0.78	0.84
		990	280S/M	81.3	6.8	240%	290%	32	1495	65	1.00	93.9	94.8	95.1	0.62	0.74	0.81
		740	280S/M	84.8	6.0	200%	240%	30	1634	59	1.00	93.8	94.5	94.7	0.60	0.71	0.78
55	75	2965	250S/M	91.0	8.3	270%	310%	14	1069	74	1.00	94.8	95.3	95.5	0.78	0.85	0.87
		1480	250S/M	94.4	7.9	300%	270%	14	1118	64	1.00	94.4	94.9	95.4	0.68	0.79	0.85
		990	280S/M	99.0	6.7	240%	290%	28	1594	65	1.00	94.3	95.0	95.4	0.64	0.75	0.81
		740	315S/M	102	6.0	190%	240%	40	2063	62	1.00	94.0	94.7	94.9	0.62	0.73	0.79
75	100	2965	250S/M	124	7.9	270%	310%	11	1102	74	1.00	94.9	95.4	95.6	0.81	0.86	0.88
		2980	280S/M	121	7.6	250%	310%	32	1603	77	1.00	94.4	95.3	95.7	0.80	0.87	0.90
		1480	250S/M	128	8.4	300%	260%	8	1171	64	1.00	94.4	95.0	95.0	0.70	0.81	0.86
		1485	280S/M	127	7.6	250%	300%	26	1607	69	1.00	94.6	95.2	95.7	0.73	0.82	0.86
		990	315S/M	133	6.7	240%	280%	32	2121	67	1.00	94.8	95.6	95.9	0.64	0.76	0.82
		740	315S/M	139	6.0	200%	240%	40	2313	62	1.00	94.4	95.1	95.2	0.62	0.73	0.79
90	125	2980	280S/M	145	7.4	240%	300%	30	1680	77	1.00	94.7	95.6	95.9	0.82	0.88	0.90
		1485	280S/M	154	7.7	250%	300%	25	1713	69	1.00	94.9	95.5	95.9	0.72	0.81	0.85
		990	315S/M	159	6.7	240%	270%	34	2310	67	1.00	95.2	95.8	96.2	0.64	0.76	0.82
		740	315S/M	166	6.0	210%	240%	40	2533	62	1.00	94.7	95.1	95.4	0.62	0.73	0.79
110	150	2980	280S/M	177	7.9	250%	310%	21	1806	77	1.00	94.7	95.7	96.1	0.80	0.87	0.90
		2980	315S/M	181	7.6	230%	320%	30	2121	77	1.00	94.6	95.7	96.1	0.78	0.86	0.88
		1485	280S/M	185	7.6	260%	300%	24	1949	69	1.00	95.3	95.8	96.1	0.72	0.82	0.86
		1490	315S/M	187	7.5	280%	290%	30	2227	71	1.00	95.2	95.8	96.3	0.71	0.81	0.85
		990	315S/M	194	6.8	260%	280%	32	2438	67	1.00	95.3	96.0	96.3	0.64	0.76	0.82
		740	315L	205	6.0	210%	240%	35	3014	68	1.00	94.8	95.3	95.5	0.61	0.72	0.78
		740	315S/M	205	6.0	210%	240%	35	3014	62	1.00	94.8	95.3	95.5	0.61	0.72	0.78
		745	355M/L	209	6.4	170%	240%	41	3272	70	1.00	93.0	95.2	95.2	0.59	0.77	0.77
132	175	2980	315S/M	212	7.5	230%	300%	30	2310	77	1.00	95.1	95.9	96.4	0.81	0.88	0.90
		1490	315S/M	224	7.6	270%	280%	26	2414	71	1.00	95.3	95.9	96.4	0.72	0.81	0.85
		990	315S/M	235	7.2	270%	290%	26	2623	67	1.00	95.4	96.0	96.3	0.64	0.75	0.81
		740	315L	246	6.0	220%	250%	34	3325	68	1.00	95.1	95.6	95.8	0.61	0.72	0.78
		745	355M/L	250	6.5	180%	240%	47	3499	70	1.00	93.5	95.4	95.4	0.60	0.71	0.77
150	200	2980	315S/M	241	7.9	240%	310%	43	2401	77	1.00	95.3	96.1	96.4	0.79	0.87	0.90
		1490	315S/M	255	7.0	260%	280%	44	2478	71	1.00	95.5	96.2	96.3	0.72	0.81	0.85
		990	315L	264	7.1	270%	300%	25	3009	68	1.00	95.5	96.1	96.4	0.64	0.76	0.82
		990	315S/M	264	7.1	270%	300%	25	3009	67	1.00	95.5	96.1	96.4	0.64	0.76	0.82

W22 IEC Tru-Metric - NEMA Premium Efficiency

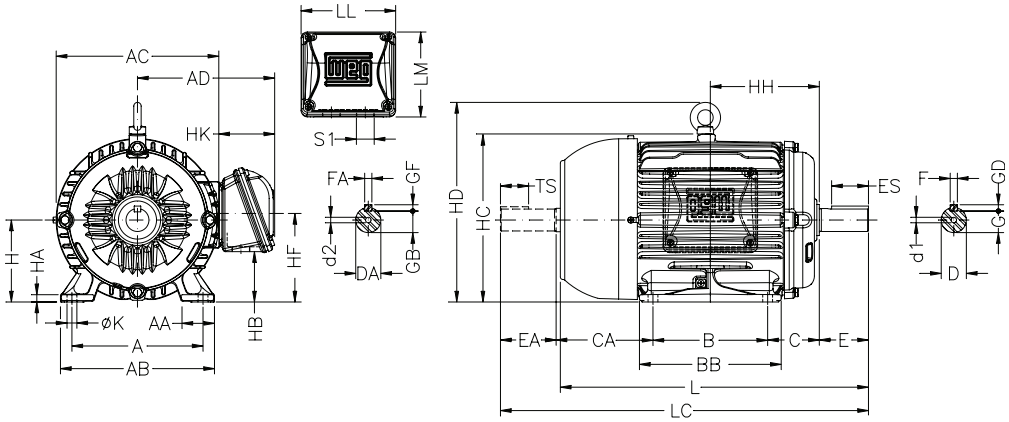
TEFC - Electrical Data - 50Hz (415V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
kW	HP			380V								50%	75%	100%	50%	75%	100%
160	220	2980	315S/M	253	7.9	250%	300%	24	2489	77	1.00	95.5	96.2	96.7	0.81	0.88	0.91
		1490	315S/M	268	7.6	280%	280%	22	2540	71	1.00	95.5	96.2	96.6	0.72	0.81	0.86
		990	315L	282	7.4	280%	290%	24	3192	68	1.00	95.5	96.1	96.4	0.64	0.76	0.82
		995	355M/L	294	6.2	220%	280%	60	3514	73	1.00	94.1	95.1	95.7	0.60	0.72	0.79
		745	355M/L	297	6.4	140%	250%	56	3851	70	1.00	95.1	95.7	96.0	0.61	0.73	0.78
185	250	2980	315S/M	296	7.8	260%	290%	22	2639	77	1.00	95.6	96.4	96.7	0.81	0.88	0.90
		1490	315S/M	310	7.6	270%	270%	18	2694	71	1.00	95.6	96.3	96.5	0.71	0.81	0.86
		990	355M/L	349	6.6	240%	260%	34	3673	73	1.00	94.5	95.5	95.8	0.61	0.72	0.77
		745	355M/L	344	6.3	140%	250%	56	4010	70	1.00	95.2	95.7	96.0	0.60	0.72	0.78
200	270	2980	315L	319	8.2	280%	280%	17	2877	78	1.00	95.9	96.5	96.8	0.81	0.88	0.90
		2985	355M/L	319	7.2	200%	280%	70	3388	80	1.00	93.5	95.1	95.8	0.88	0.90	0.91
		1490	315L	335	7.6	270%	270%	20	2937	73	1.00	95.9	96.5	96.7	0.71	0.81	0.86
		1490	315S/M	335	7.6	270%	270%	20	2937	71	1.00	95.9	96.5	96.7	0.71	0.81	0.86
		1490	355M/L	343	7.6	260%	270%	22	3296	74	1.00	95.7	96.4	96.7	0.69	0.79	0.84
		995	355M/L	366	6.5	230%	250%	40	3834	73	1.00	95.2	95.9	96.2	0.61	0.73	0.79
		745	355M/L	371	6.2	140%	250%	56	4169	70	1.00	95.3	96.0	96.1	0.61	0.73	0.78
220	300	2980	315L	347	7.7	260%	280%	24	3020	78	1.00	96.1	96.5	96.8	0.83	0.88	0.91
		2990	355M/L	349	8.5	240%	320%	65	3494	80	1.00	95.0	96.0	96.3	0.83	0.89	0.91
		1490	315L	372	7.8	280%	280%	16	3153	73	1.00	95.9	96.5	96.7	0.71	0.81	0.85
		1490	355M/L	376	7.4	260%	270%	20	3426	74	1.00	95.8	96.5	96.8	0.69	0.78	0.84
		995	355M/L	402	6.5	240%	250%	36	4087	73	1.00	95.3	96.0	96.3	0.61	0.73	0.79
250	340	2980	315L	394	7.8	270%	290%	17	3161	78	1.00	96.4	96.7	96.9	0.85	0.89	0.91
		2985	355M/L	392	7.8	190%	270%	65	3671	80	1.00	95.4	96.3	96.4	0.86	0.91	0.92
		1490	315L	422	8.0	290%	280%	16	3366	73	1.00	96.0	96.5	96.9	0.70	0.80	0.85
		1490	355M/L	427	7.3	250%	260%	16	3574	74	1.00	96.0	96.6	96.9	0.70	0.80	0.84
		995	355M/L	457	6.5	250%	240%	38	4343	73	1.00	95.3	96.0	96.3	0.61	0.73	0.79
260	350	2985	355M/L	408	7.8	190%	270%	65	3671	80	1.00	95.4	96.3	96.4	0.86	0.91	0.92
		1490	315L	439	8.0	290%	280%	16	3366	73	1.00	96.0	96.5	96.9	0.70	0.80	0.85
		1490	355M/L	444	7.3	250%	260%	16	3574	74	1.00	96.0	96.6	96.9	0.70	0.80	0.84
		995	355M/L	475	6.5	250%	240%	38	4343	73	1.00	95.3	96.0	96.3	0.61	0.73	0.79
280	380	2980	355M/L	447	7.9	250%	300%	12	3860	80	1.00	95.2	95.6	95.8	0.83	0.88	0.91
		1490	355M/L	472	7.3	250%	260%	20	3737	74	1.00	96.2	96.7	97.0	0.71	0.81	0.85
		995	355M/L	518	5.5	220%	260%	38	4343	73	1.00	94.9	96.1	96.5	0.61	0.73	0.78
315	430	2985	355M/L	497	7.8	230%	280%	23	4052	80	1.00	95.2	95.6	95.8	0.86	0.90	0.92
		1490	355M/L	532	7.3	250%	260%	22	3907	74	1.00	96.3	96.7	97.0	0.71	0.81	0.85
355	480	1490	355M/L	599	7.2	260%	270%	15	4140	74	1.00	96.4	96.8	97.0	0.72	0.82	0.85

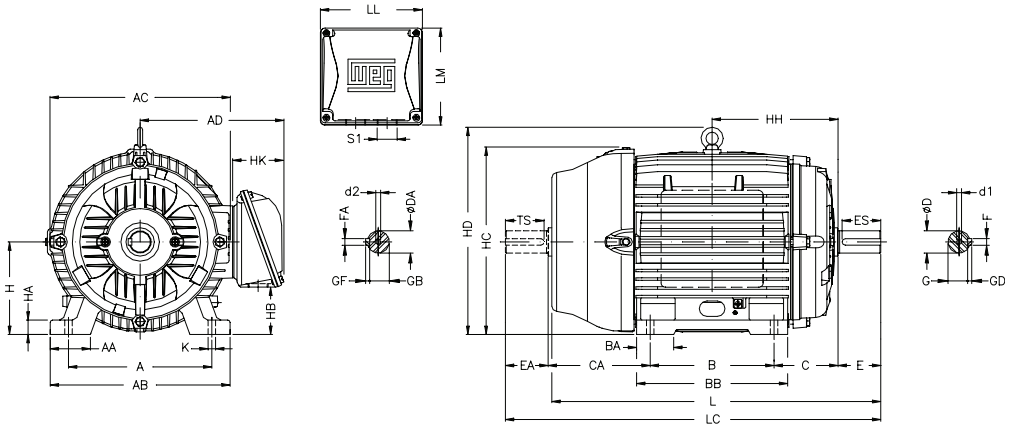
W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Mechanical Data

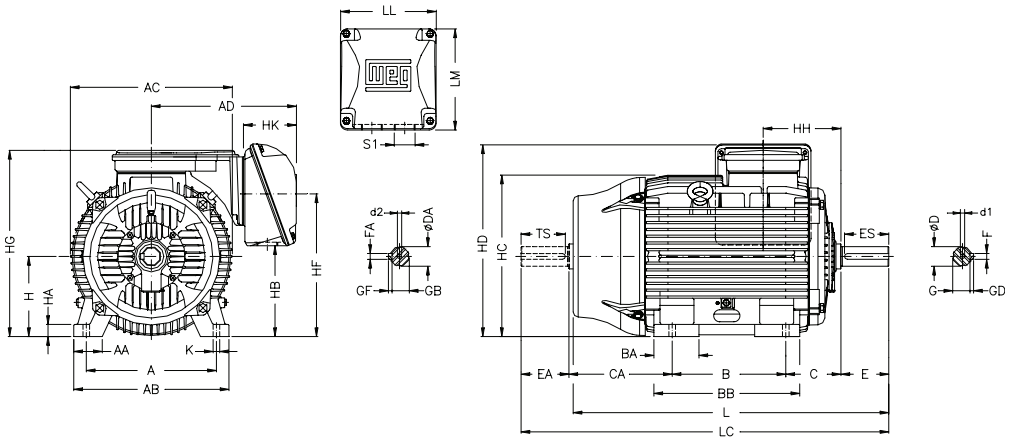
Frames 63 to 112



Frames 132 to 200



Frames 225 to 355 M/L



W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Mechanical Data

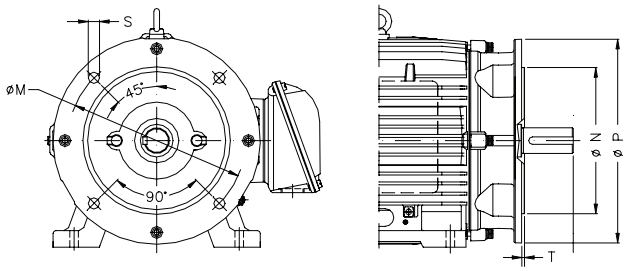
IEC FRAME	A	AA	AB	AC	AD	B	BA	BB	C	CA	SHAFT END											
											D	DA	E	EA	ES	F	FA	G	GB	GD	GF	TS
63	100	25.5	116	125	123	80		95	40	78	11j6	9j6	23	20	14	4	3	8.5	7.2	4	3	12
71	112	28.5	132	141	131	90		113.5	45	88	14j6	11j6	30	23	18	5	4	11	8.5	5	4	14
80	125	30.5	149	159	140	100		125.5	50	93	19j6	14j6	40	30	28	6	5	15.5	11	6	5	18
90L	140	36.5	164	179	159	125	-	156	56	104	24j6	16j6	50	40	36	8		20	13	7		28
90S						100		131														
100L	160	40	188	199	169	140		173	63	118	28j6	22j6	60	50	45		6	24	18.5		6	36
L100L																						
112M	190	40.5	220	222	192	140		177	70	128		24j6							20		7	
132S	216	45	248	272	220		55	187	89	150	38k6	28j6	80	60	63	10	8	33	24	8		45
132M						178		225														
160M	254	64	308	329	266	210	63	254	108	174	42k6	42k6	110	110	80	12	12	37	37		8	80
160L						254		298														
180M	279	78	350	360	281	241	70	294	121	200	48k6	48k6				14	14	42.5	42.5	9	9	
180L						279		332														
200L	318	82	385	402	319	305	82	370	133	222	55m6					16		49		10		
225S/M	356	80	436	455	410	286/311	124	412	149	319/294	60m6	60m6	140	140	125	18	18	53	53	11	11	125
250S/M	406	100	506	486		311/349	146	467	168	354/316	65m6					20		58		12		
280S/M	457		557	599	445	368/419	151	517	190	385/334	75m6	65m6						67.5	58			
315S/M	508	120	630	657	525	406/457	184	621	216	494/443	80m6		170		160	22		71		14		
315L					589	508	219	752		502												
355M/L	610	140	750	736	609	560/630	230	760	254	483/413	100m6	80m6	210	170	200	28	22	90	71	16	14	160

IEC FRAME	H	HA	HC	HD	K	L	LC	S1	d1	d2	BEARINGS	
											D.E.	N.D.E.
63	63	7	130	-	7	216	241	2xM20x1.5	EM4	EM3	6201 ZZ	6201 ZZ
71	71		145			248	276		DM5	EM4	6202 ZZ	6202 ZZ
80	80	8	163		10	276	313		DM6	DM4	6204 ZZ	6203 ZZ
90L	90	9	182			329	375	2xM25x1.5	DM8	DM6	6205 ZZ	6204 ZZ
90S						304	350					
100L	100	10	205	244	12	376	431		DM10	DM8	6206 ZZ	6205 ZZ
L100L						420	475					
112M	112		235	280		393	448	2xM32x1.5			6207-ZZ	6206-ZZ
132S	132	16	274	319		452	519		DM12	DM10	6308-ZZ	6207-ZZ
132M						490	557					
160M	160	22	331	374	14.5	598	712	2xM40x1.5	DM16	DM16	6309-C3	6209-Z-C3
160L						642	756					
180M	180	28	366	413		664	782				6311-C3	6211-Z-C3
180L						702	820					
200L	200	30	407	464	18.5	767	880	2xM50x1.5	DM20	DM20	6312-C3	6212-Z-C3
225S/M	225	34	453	541		886	1034				6314-C3	6314-C3
250S/M	250	43	493	583	24	965	1113	2xM63x1.5				
280S/M	280	42	580	700		1071	1223				6316-C3	6313-C3
315S/M	315	48	644	768	28	1274	1426				6319-C3	6316-C3
315L				774		1383	1536					
355M/L	355	50	723	898		1482	1677		DM24		6322-C3	6319-C3

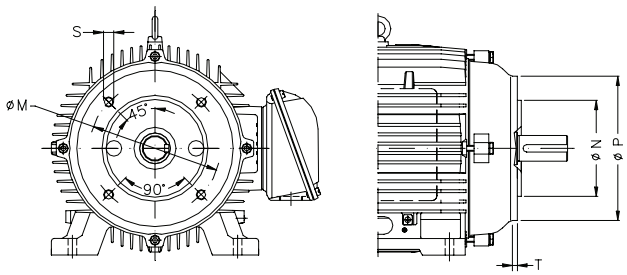
W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Mechanical Data

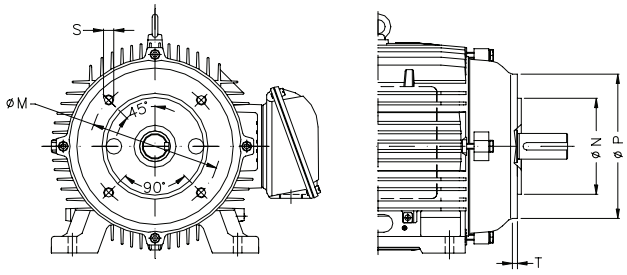
Flange "FF" Dimensions								
IEC FRAME	FLANGE	M	N	P	S	T	α	Nº of holes
63	FF-115	115	95	140	10	3	45°	4
71	FF-130	130	110	160		3.5		
80	FF-165	165	130	200	12			
90								
100	FF-215	215	180	250	15	4		
112								
132	FF-265	265	230	300				
160	FF-300	300	250	350	19	5		
180								
200	FF-350	350	300	400				
225	FF-400	400	350	450	19	5	22°30'	8
250	FF-500	500	450	550				
280								
315	FF-600	600	550	660	24	6		
355	FF-740	740	680	800				



"C-DIN" Flange Dimensions								
IEC FRAME	FLANGE	M	N	P	S	T	α	N° of holes
63	C-90	75	60	90	M5	2.5	45°	4
71	C-105	85	70	105	M6			
80	C-120	100	80	120		3		
90	C-140	115	95	140	M8			
100	C-160	130	110	160		3.5		
112								
132	C-200	165	130	200	M10			
160	C-250	215	180	249	M12x1.75	6.3		



NEMA "C" Flange Dimensions								
IEC FRAME	FLANGE	M	N	P	S	T	α	Nº of holes
63	FC-95	95.2	76.2	143	UNC 1/4"x20	4	45°	4
71								
80								
90	FC-149	149.2	114.3	165	UNC 3/8"x16			
100								
112	FC-184	184.2	215.9	225	UNC 1/2"x13	6.3		
132								
160								
180	FC-228	228.6	266.7	280				
200								
225	FC-279	279.4	317.5	395	UNC 5/8"x11	6.3	22°30'	8
250	FC-355	355.6	406.4	455				
280								
315	FC-368	368.3	419.1					
355								



W22 NEMA Premium Efficiency Motors

TENV – Vector Duty

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 4 pole, 60Hz
- Voltage: 208-230/460V, 575V
- Totally Enclosed Non Ventilated - TENV (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing: V’Ring
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “H” insulation for all frames. Temperature rise limited to Class “F” (105K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System: Dip and Bake Insulation system with class “H” resin
- NEMA design “B”
- Service Factor: 1.0
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254/6T
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T
- All frames have dual mounting
- NC Thermostat (1 per phase)
- Constant torque operation from 0 to base speed (1000:1) on PWM Vector Drive
- Constant Horsepower operation up to 150% base speed
- Ready for encoder mount
- Special nameplate data for easy drive set-up
- Ready for C-face brake, limited to 10 lb-ft braking torque

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 254/6T	All	1000:1	1000:1	Any
	All	1000:1		WEG

Optional Features

- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Degree of protection: IP56, IP65, IP66
- Encoders
- No feet

W22 NEMA Premium Efficiency Motors

TENV – Purchasing and Electrical Data

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM				460V	575V				
1	1800	143/5TC	$1,201	CT000X04NPW22VD	1.41	1.13	85.5	53	14.678	.875
1.5	1800	143/5TC	$1,308	CT001X04NPW22VD	2.0	1.60	86.5	56	14.678	.875
2	1800	143/5TC	$1,440	CT002X04NPW22VD	2.65	2.12	86.5	61	14.678	.875
3	1800	182/4TC	$1,854	CT003X04NPW22VD	3.91	3.13	89.5	101	16.569	1.125
5	1800	182/4TC	$2,132	CT005X04NPW22VD	7.11	5.69	89.5	110	16.569	1.125
7.5	1800	213/5TC	$3,138	CT007X04NPW22VD	9.1	7.28	91.7	171	20.041	1.375
10	1800	213/5TC	$3,570	CT010X04NPW22VD	13.3	10.64	91.7	198	20.041	1.375
15	1800	254/6TC	$4,515	CT015X04NPW22VD	19.4	15.52	92.4	324	25.569	1.625
20	1800	254/6TC	$5,146	CT020X04NPW22VD	26.6	21.28	93	356	25.569	1.625

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

For mechanical data and dimensions please contact us

W01 Rolled Steel 56 Frame Single Phase Motors

TEFC - Standard Efficiency

Standard Features

- Single Phase, 2, 4 & 6 pole, 60Hz
- Voltage: 115/208-230V
- Totally Enclosed Fan Cooled
- Degree of Protection: IP55
- Die cast aluminum squirrel cage rotor
- Start capacitor/Run capacitor
- Ball bearings
- Continuous duty, 40°C ambient
- High starting torque
- Service factor: 1.15
- Class “F” insulation
- Paint: Munsell N1 – Flat Black
- WEG paint plan: 207N
- V rings

Optional Features

- Flange mounted (C Flange)
- Special voltages
- Specially designed shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Automatic or manual thermal overload protection
- Oil Seal (D.E.)
- Other mounting configurations

W01 NEMA 56 Frame Single Phase Motors

TEFC - Purchasing Data - Standard Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.25	3600	W56	$221	$274	TF.25102W01	4.20	2.10	16.3	10.713
	1800	W56	$269	$327	TF.25104W01	4.60	2.30	17.0	11.106
0.33	3600	W56	$231	$283	TF.33102W01	5.20	2.60	19.1	11.106
	1800	W56	$270	$323	TF.33104W01	6.00	3.00	18.3	11.500
0.5	3600	W56	$256	$308	TF.50102W01	7.00	3.50	21.5	11.500
	1800	W56	$307	$360	TF.50104W01	8.00	4.00	21.3	11.894
	1200	56	$349	$402	TF.50106W01	6.40	3.20	30.9	13.508
0.75	3600	56	$277	$330	TF.75102W01	8.00	4.00	26.5	12.721
	1800	56	$377	$430	TF.75104W01	10.6	5.30	28.7	13.114
	1200	56H	$444	$497	TF.75106W01	9.40	4.70	35.3	14.295
1	3600	56	$330	$382	TF000102W01	10.2	5.10	28.7	13.114
	1800	56	$403	$456	TF000104W01	13.6	6.80	33.1	13.902
	1200	56H	$547	$600	TF000106W01	11.0	5.50	43.0	15.083
1.5	3600	56	$427	$480	TF001102W01	13.2	6.60	32.0	13.902
	1800	56H	$492	$544	TF001104W01	14.96	7.48	43.0	15.083
2	3600	56H	$514	$567	TF002102W01	17.4	8.70	35.3	14.295
	1800	56H	$566	$618	TF002104W01	20.0	10.0	46.3	15.870
3	3600	56H	$684	$737	TF003102W01	25.4	12.7	45.2	15.476

Flange: For C Flange change 'TF' to 'FC'

TEFC - Purchasing Data - Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.25	3600	W56	$240	$293	TF.25102W01D0E	2.52	1.26	22.9	-
	1800	W56	$285	$344	TF.25104W01D0E	2.90	1.45	20.4	11.500
0.33	3600	W56	$251	$322	TF.33102W01D0E	3.18	1.59	24.0	-
	1800	W56	$285	$344	TF.33104W01D0E	3.76	1.88	25.0	12.287
0.5	3600	W56	$278	$330	TF.50102W01D0E	4.78	2.39	24.1	-
	1800	W56	$344	$397	TF.50104W01D0E	5.22	2.61	36.5	12.681
0.75	3600	56	$297	$344	TF.75102W01D0E	6.54	3.27	30.5	-
	1800	56	$442	$495	TF.75104W01D0E	7.00	3.50	35.1	14.295
1	3600	56	$352	$405	TF000102W01D0E	8.74	4.37	35.2	13.902
	1800	56	$468	$521	TF000104W01D0E	9.38	4.69	44.0	15.083
1.5	3600	56	$453	$506	TF001102W01D0E	12.4	6.18	38.6	14.295
	1800	56H	$571	$623	TF001104W01D0E	13.8	6.90	48.2	15.083
2	3600	56H	$552	$605	TF002102W01D0E	16.6	8.32	43.7	14.689
	1800	56H	$693	$746	TF002104W01D0E	18.8	9.41	57.1	15.870
3	3600	56H	$721	$774	TF003102W01D0E	25.0	12.5	52.3	15.476

Flange: For C Flange change 'TF' to 'FC'

W01 NEMA 56 Frame Single Phase Motors

TEFC - Electrical Data - Standard Efficiency

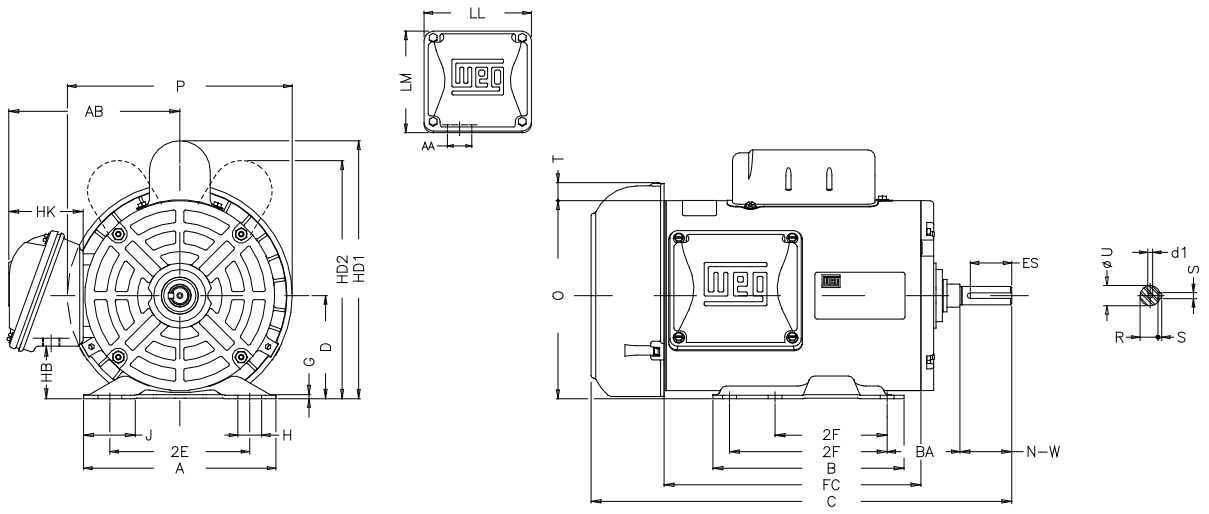
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V					50%	75%	100%	50%	75%	100%
0.25	0.18	3485	W56	4.20	2.10	290%	300%	18	1.15	35.0	44.0	50.0	0.60	0.68	0.74
		1735	W56	4.60	2.30	310%	280%	17	1.15	43.0	52.0	57.0	0.43	0.52	0.60
0.33	0.25	3490	W56	5.20	2.60	290%	290%	19	1.15	42.0	50.0	54.0	0.61	0.69	0.76
		1735	W56	6.00	3.00	320%	280%	19	1.15	46.0	55.0	61.0	0.42	0.51	0.59
0.5	0.37	3500	W56	7.00	3.50	290%	300%	21	1.15	50.0	58.0	60.0	0.59	0.69	0.76
		1730	W56	8.00	4.00	320%	270%	21	1.15	52.0	59.0	64.0	0.44	0.54	0.63
		1170	56	6.40	3.20	240%	260%	31	1.15	54.0	63.0	67.0	0.58	0.67	0.72
0.75	0.55	3500	56	8.00	4.00	280%	290%	27	1.15	52.0	62.0	66.0	0.81	0.87	0.91
		1745	56	10.6	5.30	300%	270%	29	1.15	57.0	65.0	68.5	0.47	0.58	0.67
		1170	56H	9.40	4.70	220%	240%	36	1.15	59.0	67.0	70.0	0.58	0.67	0.73
1	0.75	3500	56	10.1	5.06	280%	280%	29	1.15	55.0	64.0	70.0	0.82	0.88	0.92
		1745	56	13.6	5.80	280%	270%	34	1.15	62.0	68.0	71.0	0.48	0.60	0.68
		1165	56H	11.0	5.50	180%	200%	43	1.15	64.0	71.0	73.0	0.68	0.77	0.81
1.5	1.1	3500	56	13.2	6.60	240%	250%	32	1.15	66.0	73.0	75.0	0.92	0.95	0.97
		1750	56H	15.8	7.88	300%	310%	43	1.15	67.0	74.0	77.0	0.62	0.72	0.79
2	1.5	3495	56H	17.5	8.73	220%	250%	36	1.15	70.0	75.0	77.0	0.94	0.97	0.97
		1745	56H	20.0	10.0	260%	260%	47	1.15	70.0	76.0	78.5	0.66	0.76	0.82
3	2.2	3490	56H	25.4	12.7	210%	250%	45	1.15	76.0	79.0	80.0	0.86	0.92	0.94

TEFC - Electrical Data - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V					50%	75%	100%	50%	75%	100%
0.25	0.18	3510	W56	2.52	1.26	290%	300%	22	1.15	50.0	59.5	68.0	0.87	0.89	0.91
		1745	W56	2.90	1.45	280%	290%	20	1.15	57.5	64.0	70.0	0.64	0.71	0.77
0.33	0.25	3505	W56	3.18	1.59	290%	320%	22	1.15	55.0	68.0	72.0	0.94	0.94	0.95
		1745	W56	3.76	1.88	300%	290%	22	1.15	64.0	68.0	74.0	0.66	0.72	0.78
0.5	0.37	3510	W56	4.78	2.39	260%	300%	23	1.15	64.0	70.0	74.0	0.85	0.88	0.91
		1740	W56	5.22	2.61	300%	270%	25	1.15	68.0	72.0	77.0	0.67	0.71	0.80
0.75	0.55	3510	56	6.5	3.27	290%	300%	26	1.15	64.0	72.0	77.0	0.94	0.94	0.95
		1750	56	7.0	3.50	280%	250%	28	1.15	74.0	78.5	78.5	0.78	0.83	0.87
1	0.75	3505	56	8.7	4.37	270%	290%	32	1.15	64.0	72.0	78.5	0.95	0.94	0.95
		1750	56	9.4	4.69	270%	250%	34	1.15	75.5	80.0	80.0	0.79	0.84	0.87
1.5	1.1	3500	56	12.4	6.18	250%	270%	35	1.15	68.0	75.5	81.5	0.95	0.95	0.95
		1745	56H	13.8	6.90	280%	260%	47	1.15	77.0	81.5	81.5	0.75	0.81	0.85
2	1.5	3500	56H	16.6	8.3	240%	270%	44	1.15	74.0	80.0	82.5	0.93	0.94	0.95
		1735	56H	18.8	9.4	290%	250%	50	1.15	80.0	82.5	82.5	0.71	0.79	0.84
3	2.2	3500	56H	25.0	12.5	220%	280%	51	1.15	81.5	84.0	84.0	0.83	0.88	0.91

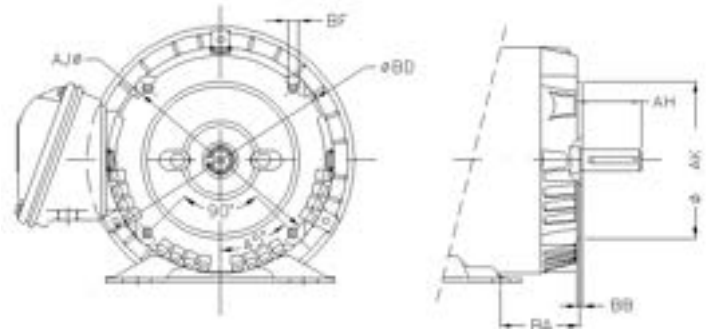
NEMA 56 Frame Single Phase Motors

TEFC - Mechanical Data



NEMA FRAMES	2E	2F	A	AB	B	BA	D	AA	HB	HK	Hole H	H1	O	P	HD1	SHAFT END					BEARINGS	
																ES	N-W	R	S	U	D.E.	N.D.E.
W56	4.874	3.000	6.563	5.520	4.016	2.75	3.500	0.881*	2.056	2.650	0.343	1.220	6.330	6.693	8.189	1.417	1.874	0.517	1.187	0.625	6203-ZZ	6202ZZ
56				5.873					1.784	2.629			6.723	7.638	8.618						6303ZZ up to 0.75HP 6204ZZ from 1HP and up	
56H		3.000/5.000			6.496																6204ZZ	

"C" FLANGE DIMENSIONS						
NEMA FRAMES	Flange					
	AJ	AK	BB	BD	BF	AH
W56C	5.874	4.500	0.157	6.468	UNC 3/8" x 16	2.062
56C				6.450		
56HC				6.450		



W01 Rolled Steel 56 Frame Three Phase Motors
TEFC

Standard Features

- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V & 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- V’Ring sealing
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design “A”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Color: Munsell N1 - Flat Black

Class I, Div 2, Groups A,B,C & D
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
56 - 56H < 1HP	All	10:1	1000:1	Any
56 - 56H ≥ 1HP	All	5:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Oil Seal, Lip Seal
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- NEMA C Flange for all ratings
- Special paint
- Degree of protection: IP56
- No feet

W01 Rolled Steel 56 Frame Three Phase Motors

TEFC - Purchasing Data - Standard Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	FC Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM					460V	575V					
0.25	3600	56	$265	$324	TF.25X02W01	0.46	0.37	57.5	17.2	11.142	5.512	0.625
	1800	56	$265	$324	TF.25X04W01	0.52	0.42	70.0	18.1	11.142	5.512	0.625
	1200	56	$278	$337	TF.25X06W01	0.55	0.44	68.0	19.0	11.535	5.906	0.625
0.33	3600	56	$269	$328	TF.33X02W01	0.60	0.48	62.0	17.2	11.142	5.512	0.625
	1800	56	$269	$328	TF.33X04W01	0.62	0.50	74.0	19.4	11.535	5.906	0.625
	1200	56	$287	$316	TF.33X06W01	0.72	0.58	70.0	21.8	11.929	6.299	0.625
0.5	3600	56	$274	$333	TF.50X02W01	0.84	0.67	68.0	19.0	11.535	5.906	0.625
	1800	56	$300	$359	TF.50X04W01	0.86	0.69	77.0	20.9	11.535	5.906	0.625
	1200	56	$334	$393	TF.50X06W01	0.99	0.79	72.0	24.7	12.323	6.693	0.625
0.75	3600	56	$316	$376	TF.75X02W01	1.13	0.90	72.0	20.3	11.535	5.906	0.625
	1800	56	$327	$386	TF.75X04W01	1.22	0.98	78.5	22.5	11.929	6.299	0.625
	1200	56H	$346	$405	TF.75X06W01	1.34	1.07	75.5	29.5	12.717	7.087	0.625

Flange: Replace 'TF' with 'FC' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

TEFC - Purchasing Data - Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	FC Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM					460V	575V					
0.25	3600	W56	$285	$344	TF.25X02W01D0E	0.46	0.37	66.0	15	10.319	5.512	0.625
	1800	W56	$284	$343	TF.25X04W01D0E	0.48	0.39	70.0	18.5	10.319	5.512	0.625
	1200	56	$294	$353	TF.25X06W01D0E	0.52	0.42	72.0	25.6	11.535	5.906	0.625
0.33	3600	W56	$285	$344	TF.33X02W01D0E	.59	0.47	70.0	17.5	10.319	5.512	0.625
	1800	W56	$290	$349	TF.33X04W01D0E	0.62	0.50	74.0	19.5	10.713	5.906	0.625
	1200	56	$284	$343	TF.33X06W01D0E	0.72	0.58	72.0	28.2	11.929	6.299	0.625
0.5	3600	W56	$291	$350	TF.50X02W01D0E	0.79	0.63	74.0	19.4	10.713	5.906	0.625
	1800	W56	$325	$384	TF.50X04W01D0E	0.78	0.63	78.5	20.9	11.500	6.693	0.625
	1200	56	$373	$432	TF.50X06W01D0E	0.98	0.79	75.5	30.9	12.323	6.693	0.625
0.75	3600	W56	$339	$398	TF.75X02W01D0E	1.12	0.90	77.0	20.5	10.713	5.906	0.625
	1800	56	$361	$420	TF.75X04W01D0E	1.19	0.96	81.5	30.2	12.323	6.693	0.625
	1200	56H	$412	$472	TF.75X06W01D0E	1.29	1.03	82.5	36.2	13.110	7.480	0.625
1	3600	W56	$381	$441	TF000X02W01D0E	1.50	1.20	78.5	20.5	11.106	6.300	0.625
	1800	56	$414	$473	TF000X04W01D0E	1.47	1.18	85.5	37.9	13.504	7.874	0.625
	1200	56H	$498	$557	TF000X06W01D0E	1.58	1.26	82.5	38.6	13.504	7.874	0.625
1.5	3600	56H	$435	$494	TF001X02W01D0E	1.87	1.50	84	34.2	13.109	7.480	0.625
	1800	56H	$461	$520	TF001X04W01D0E	2.02	1.62	86.5	37.9	13.504	7.874	0.625
2	3600	56H	$439	$498	TF002X02W01D0E	2.47	1.98	85.5	40.1	13.898	8.268	0.625
	1800	56H	$506	$565	TF002X04W01D0E	2.72	2.18	86.5	42.3	13.898	8.268	0.625
3	3600	56H	$575	$634	TF003X02W01D0E	3.51	2.81	86.5	48.1	15.079	9.449	0.625

Flange: Replace 'TF' with 'FC' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W01 Rolled Steel 56 Frame Three Phase Motors

TEFC - Electrical Data - Standard Efficiency

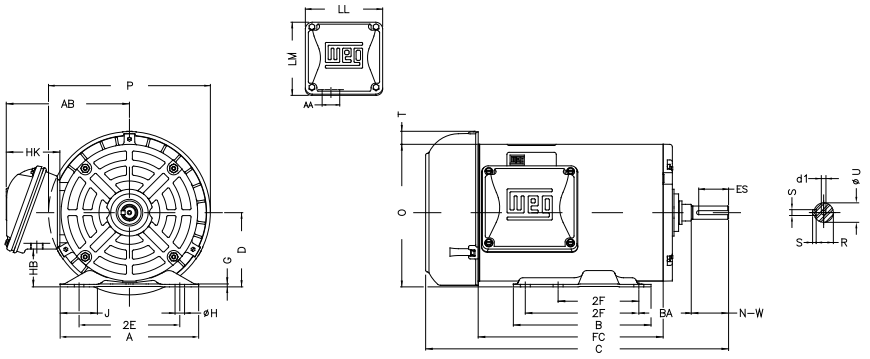
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.25	0.18	3475	56	0.91	0.46	0.37	6.4	250%	300%	60	17.2	1.15	46.0	52.5	57.5	0.75	0.82	0.86
		1765	56	1.04	0.52	0.42	6.3	240%	300%	38	18.1	1.15	57.5	66.0	70.0	0.43	0.54	0.62
		1160	56	1.09	0.55	0.44	5.1	230%	300%	46	19.0	1.15	55.0	64.0	68.0	0.41	0.52	0.61
0.33	0.25	3485	56	1.20	0.60	0.48	6.4	250%	300%	40	17.2	1.15	48.0	57.5	62.0	0.72	0.79	0.84
		1765	56	1.25	0.62	0.50	7.1	230%	300%	31	19.4	1.15	64.0	72.0	74.0	0.47	0.58	0.68
		1160	56	1.45	0.72	0.58	5.5	240%	300%	36	21.8	1.15	59.5	68.0	70.0	0.42	0.53	0.62
0.5	0.37	3500	56	1.69	0.84	0.67	7.0	260%	300%	35	19.0	1.15	55.0	62.0	68.0	0.67	0.75	0.81
		1760	56	1.72	0.86	0.69	7.0	240%	300%	20	20.9	1.15	68.0	74.0	77.0	0.48	0.61	0.70
		1160	56	1.98	0.99	0.79	5.4	210%	300%	22	24.7	1.15	64.0	70.0	72.0	0.44	0.56	0.65
0.75	0.55	3475	56	2.26	1.13	0.90	7.0	250%	290%	23	20.3	1.15	62.0	68.0	72.0	0.70	0.79	0.85
		1755	56	2.44	1.22	0.98	6.9	240%	300%	17	22.5	1.15	72.0	77.0	78.5	0.48	0.61	0.72
		1155	56H	2.68	1.34	1.07	5.8	230%	300%	21	29.5	1.15	70.0	74.0	75.5	0.46	0.59	0.68

TEFC - Electrical Data - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.25	0.18	3460	W56	0.91	0.46	0.36	7.4	350%	400%	30	15.0	1.15	55.0	62.0	66.0	0.60	0.70	0.75
		1740	W56	0.96	0.48	0.38	5.6	240%	320%	28	14.6	1.15	59.5	66.0	68.0	0.48	0.60	0.69
		1160	56	1.07	0.54	0.43	4.7	190%	300%	40	25.6	1.15	59.5	66.0	68.0	0.42	0.53	0.62
0.33	0.25	3450	W56	1.18	0.59	0.47	7.1	320%	370%	28	15.0	1.15	59.5	66.0	70.0	0.61	0.71	0.76
		1740	W56	1.25	0.62	0.50	6.2	260%	350%	22	16.5	1.15	66.0	72.0	74.0	0.46	0.58	0.68
		1160	56	1.43	0.71	0.57	5.3	220%	330%	30	28.2	1.15	64.0	70.0	72.0	0.41	0.52	0.61
0.5	0.37	3435	W56	1.57	0.78	0.63	7.7	330%	360%	18	17.4	1.15	68.0	72.0	74.0	0.64	0.75	0.80
		1730	W56	1.56	0.78	0.62	6.4	230%	310%	20	20.9	1.15	74.0	77.0	78.5	0.54	0.67	0.76
		1160	56	1.95	0.98	0.78	5.6	240%	330%	26	30.9	1.15	68.0	74.0	75.5	0.41	0.53	0.63
0.75	0.55	3440	W56	2.24	1.12	0.90	8.1	350%	360%	16	18.3	1.15	70.0	75.5	77.0	0.62	0.74	0.80
		1760	56	2.38	1.19	0.95	7.7	240%	360%	16	30.2	1.15	75.5	80.0	81.5	0.49	0.71	1.19
		1160	56H	2.58	1.29	1.03	6.5	290%	370%	40	36.2	1.15	77.0	81.5	82.5	0.43	0.50	0.65
1	0.75	3435	W56	3.00	1.50	1.20	8.8	360%	380%	10	20.5	1.15	74.0	77.0	78.5	0.63	0.75	0.80
		1765	56	2.94	1.47	1.18	8.6	280%	300%	19	37.9	1.15	82.5	84.0	85.5	0.52	0.66	0.75
		1145	56H	3.16	1.58	1.26	5.8	230%	280%	31	38.6	1.15	80.0	82.5	82.5	0.50	0.63	0.72
1.5	1.1	3520	56H	3.74	1.87	1.50	9.1	230%	300%	17	34.2	1.15	80.0	82.5	84.0	0.71	0.82	0.88
		1750	56H	4.04	2.02	1.62	8.2	270%	300%	21	37.9	1.15	85.5	86.5	86.5	0.59	0.72	0.79
2	1.5	3520	56H	4.94	2.47	1.98	9.9	250%	300%	13	40.1	1.15	82.5	85.5	85.5	0.73	0.83	0.89
		1750	56H	4.04	2.02	1.62	8.2	270%	300%	21	39.7	1.15	85.5	86.5	86.5	0.59	0.72	0.79
3	2.2	3500	56H	7.02	3.51	2.81	9.5	300%	380%	10	48.1	1.15	84.0	86.5	86.8	0.78	0.87	0.91

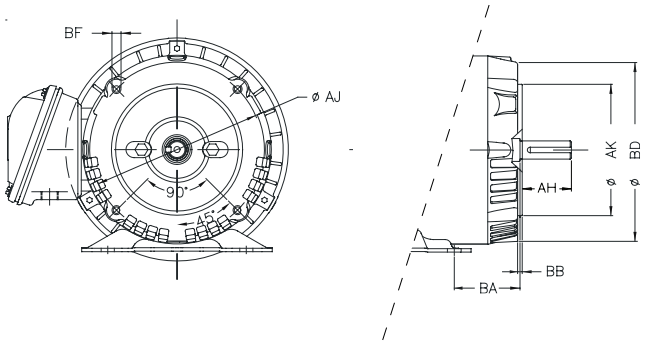
W01 Rolled Steel 56 Frame Three Phase Motors

TEFC - Mechanical Data



NEMA Frame	2E	2F	A	AB	B	BA	D	HB	HK	Hole H	J	LL	LM	O	P	T	Shaft end						Bearings	
																	d1	ES	N-W	R	S	U	D.E.	N.D.E.
W56	4.874	3.000	6.535	5.520	4.016	2.750	3.500	2.056	2.650	0.343	1.620	3.835	3.697	6.330	6.693	0.524	A 3.15	1.417	1.874	0.517	0.187	0.625	6203ZZ	6202ZZ
56				5.873				1.784	2.629		1.734	4.563	4.090	6.723	7.638	0.604							6303ZZ up to 0.75HP 6204ZZ from 1HP and up	
56H		3.000/5.000			6.496						1.593												6204ZZ	

"C" Flange Dimensions							
Frame	BA	Flange					
		AJ	AK	BB	BD	BF	AH
W56C	2.750	5.874	4.500	0.157	6.468	UNC 3/8"x16	2.062
56C					6.450		
56HC					6.450		



W01 Rolled Steel 56 Frame Three Phase Motors
ODP

Standard Features

- Standard Efficiency & Premium Efficiency (DOE)
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V & 575V
- Open Drip Proof - ODP (IP21)
- Die cast aluminum squirrel cage rotor
- ZZ Bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Paint: Synthetic enamel alkyd resin base
- Color: Munsell N1 - Flat Black

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- NEMA C flange for all ratings
- Special paint
- No feet

Inverter Ratings - Standard Efficiency				
Frames	Poles	Constant Torque	Variable Torque	VFD
56 - 56H < 1HP	All	4:1	1000:1	Any
56 - 56H ≥ 1HP	All	2:1		
See page 7.6 for details				

Inverter Ratings - Premium Efficiency (DOE)				
Frames	Poles	Constant Torque	Variable Torque	VFD
56 - 56H < 1HP	2 Pole	5:1	1000:1	Any
56 - 56H ≥ 1HP	2 Pole	3:1		
56 - 56H	4 Pole	5:1		
See page 7.6 for details				

W01 Rolled Steel 56 Frame Three Phase Motors

ODP - Standard Efficiency - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM					460V	575V				
0.25	3600	56	$206	$265	0F.25X02W01	0.49	0.39	64.0	16.1	10.315	0.625
	1800	56	$206	$265	0F.25X04W01	0.57	0.46	66.0	15.7	9.921	0.625
	1200	56	$271	$330	0F.25X06W01	0.60	0.48	64.0	17.0	10.315	0.625
0.33	3600	56	$210	$269	0F.33X02W01	0.66	0.53	66.0	16.1	10.315	0.625
	1800	56	$210	$269	0F.33X04W01	0.72	0.58	68.0	15.7	9.921	0.625
	1200	56	$275	$334	0F.33X06W01	0.76	0.60	68.0	18.3	10.315	0.625
0.5	3600	56	$220	$279	0F.50X02W01	0.95	0.76	68.0	16.3	10.315	0.625
	1800	56	$241	$300	0F.50X04W01	0.98	0.78	72.0	17.4	10.315	0.625
	1200	56	$306	$365	0F.50X06W01	0.99	0.79	72.0	21.2	10.709	0.625
0.75	3600	56	$241	$300	0F.75X02W01	1.26	1.01	72.0	18.3	10.709	0.625
	1800	56	$259	$318	0F.75X04W01	1.34	1.07	75.5	20.3	10.709	0.625
	1200	56H	$333	$392	0F.75X06W01	1.29	1.03	75.5	25.6	11.496	0.625

Flange: Replace 'F' with 'C' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

ODP - Premium Efficiency (DOE) - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM					460V	575V				
0.25	3600	56	$216	$275	0F.25X02W01D0E	0.46	0.37	65.6	16.1	10.315	0.625
	1800	56	$216	$275	0F.25X04W01D0E	0.53	0.43	69.5	15.7	9.921	0.625
	1200	56	$284	$343	0F.25X06W01D0E	0.55	0.44	67.5	17.0	10.315	0.625
0.33	3600	56	$220	$279	0F.33X02W01D0E	0.61	0.49	69.5	16.3	10.315	0.625
	1800	56	$220	$279	0F.33X04W01D0E	0.67	0.53	73.4	17.4	10.315	0.625
	1200	56	$290	$349	0F.33X06W01D0E	0.70	0.56	71.4	18.3	10.315	0.625
0.5	3600	56	$232	$291	0F.50X02W01D0E	0.81	0.65	73.4	16.5	10.315	0.625
	1800	56	$257	$316	0F.50X04W01D0E	0.86	0.69	78.2	20.3	10.709	0.625
	1200	56	$322	$381	0F.50X06W01D0E	0.93	0.75	75.3	21.2	10.709	0.625
0.75	3600	56	$268	$327	0F.75X02W01D0E	1.14	0.91	76.8	18.3	10.709	0.625
	1800	56	$278	$337	0F.75X04W01D0E	1.15	0.92	81.1	23.4	11.102	0.625
	1200	56H	$349	$408	0F.75X06W01D0E	1.26	1.01	81.7	34.4	12.677	0.625
1	3600	56	$271	$330	0F000X02W01D0E	1.51	1.21	77.0	19.6	10.709	0.625
	1800	56	$282	$342	0F000X04W01D0E	1.57	1.26	83.5	26.2	11.495	0.625
	1200	56H	$374	$433	0F000X06W01D0E	1.68	1.34	82.5	38.8	13.071	0.625
1.5	3600	56	$303	$362	0F001X02W01D0E	1.85	1.47	84.0	29.3	11.889	0.625
	1800	56H	$334	$393	0F001X04W01D0E	2.10	1.68	86.5	36.8	13.071	0.625
2	3600	56H	$325	$384	0F002X02W01D0E	2.42	1.94	85.5	36.8	12.677	0.625
	1800	56H	$371	$430	0F002X04W01D0E	2.69	2.15	86.5	35.5	12.283	0.625
3	3600	56H	$447	$506	0F003X02W01D0E	3.59	2.87	85.5	39.9	13.071	0.625
	1800	56H	$627	$667	0F003X04W01D0E	3.97	3.18	86.9	43.0	13.071	0.625

Flange: Replace 'F' with 'C' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W01 Rolled Steel 56 Frame Three Phase Motors

ODP - Standard Efficiency - Electrical Data

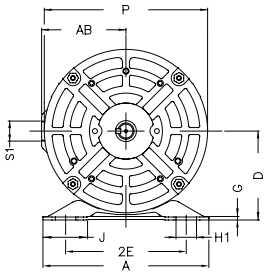
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.25	0.18	3520	56	0.98	0.49	0.39	7.0	280%	360%	48	16.1	1.35	52.5	62.0	64.0	0.53	0.64	0.72
		1760	56	1.14	0.57	0.46	5.9	230%	350%	33	15.7	1.35	55.0	62.0	66.0	0.41	0.51	0.60
		1160	56	1.20	0.60	0.48	4.5	210%	300%	37	17.0	1.35	52.5	60.0	64.0	0.41	0.51	0.59
0.33	0.25	3515	56	1.32	0.66	0.53	6.5	250%	330%	38	16.1	1.35	55.0	62.0	66.0	0.52	0.63	0.72
		1755	56	1.44	0.72	0.58	5.5	200%	310%	29	15.7	1.35	57.5	64.0	68.0	0.43	0.54	0.64
		1160	56	1.51	0.76	0.60	5.1	220%	310%	30	18.3	1.35	59.5	64.0	68.0	0.41	0.52	0.61
0.5	0.37	3495	56	1.90	0.95	0.76	6.0	240%	280%	34	16.3	1.25	57.5	64.0	68.0	0.49	0.62	0.72
		1755	56	1.95	0.98	0.78	6.0	220%	290%	23	17.4	1.25	64.0	70.0	72.0	0.43	0.56	0.66
		1155	56	1.98	0.99	0.79	5.3	220%	300%	23	21.2	1.25	64.0	70.0	72.0	0.43	0.55	0.65
0.75	0.55	3480	56	2.52	1.26	1.01	6.2	230%	260%	31	18.3	1.25	64.0	70.0	72.0	0.53	0.67	0.76
		1755	56	2.68	1.34	1.07	6.3	230%	300%	13	20.3	1.25	66.0	72.0	75.5	0.45	0.58	0.68
		1150	56H	2.58	1.29	1.03	5.4	200%	270%	20	25.6	1.15	70.0	74.0	75.5	0.48	0.61	0.71

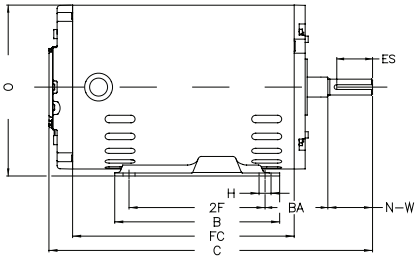
ODP - Premium Efficiency (DOE) - Electrical Data

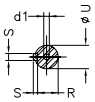
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.25	0.18	3525	56	0.92	0.46	0.37	6.9	240%	330%	-	16.1	1.35	55.0	64.0	65.6	0.56	0.66	0.75
		1765	56	1.07	0.53	0.43	5.9	230%	330%	-	15.7	1.35	57.5	64.0	69.5	0.41	0.52	0.61
		1160	56	1.10	0.55	0.44	4.8	210%	280%	-	17.0	1.35	55.0	64.0	67.5	0.41	0.52	0.61
0.33	0.25	3520	56	1.22	0.61	0.49	6.7	250%	320%	-	16.3	1.35	57.5	66.0	69.5	0.54	0.65	0.74
		1765	56	1.34	0.67	0.53	6.2	230%	330%	-	17.4	1.35	62.0	70.0	73.4	0.44	0.55	0.64
		1160	56	1.40	0.70	0.56	5.0	210%	280%	-	18.3	1.35	59.5	66.0	71.4	0.42	0.53	0.63
0.5	0.37	3490	56	1.62	0.81	0.65	6.2	230%	280%	-	16.5	1.25	64.0	70.0	73.4	0.57	0.69	0.78
		1765	56	1.72	0.86	0.69	7.2	240%	330%	-	20.3	1.25	70.0	75.5	78.2	0.47	0.60	0.69
		1155	56	1.87	0.93	0.75	5.1	200%	260%	-	21.2	1.25	68.0	74.0	75.3	0.43	0.56	0.66
0.75	0.55	3485	56	2.28	1.14	0.91	6.5	240%	280%	-	18.3	1.25	68.0	74.0	76.8	0.57	0.70	0.79
		1760	56	2.30	1.15	0.92	7.3	250%	300%	-	23.4	1.25	74.0	78.5	81.1	0.52	0.65	0.74
		1160	56H	2.52	1.26	1.01	5.9	220%	280%	-	34.4	1.15	75.5	80.0	81.7	0.45	0.58	0.67
1	0.75	3470	56	3.02	1.51	1.21	6.4	230%	260%	-	19.6	1.25	70.0	75.5	77.0	0.60	0.73	0.81
		1760	56	3.14	1.57	1.26	7.6	280%	320%	-	26.2	1.15	78.5	82.5	83.5	0.49	0.63	0.72
		1160	56H	3.36	1.68	1.34	6.2	240%	300%	-	38.8	1.15	77.0	81.5	82.5	0.45	0.58	0.68
1.5	1.1	3510	56	3.70	1.85	1.48	8.6	210%	330%	19	29.3	1.15	81.5	84.0	84.0	0.73	0.83	0.89
		1760	56H	4.20	2.10	1.68	8.8	290%	350%	-	36.8	1.15	84.0	85.5	86.5	0.53	0.66	0.76
2	1.5	3510	56H	4.84	2.42	1.94	8.9	220%	330%	14	36.8	1.15	84.0	85.5	85.5	0.77	0.86	0.91
		1740	56H	5.38	2.69	2.15	7.7	260%	320%	17	35.5	1.15	85.5	86.5	86.5	0.61	0.74	0.81
3	2.2	3480	56H	7.18	3.59	2.87	8.0	230%	300%	9	39.9	1.15	84.0	85.5	85.5	0.76	0.86	0.90
		1735	56H	7.94	3.97	3.18	7.6	270%	300%	-	43.0	1.15	86.5	86.5	86.9	0.59	0.72	0.80

W01 Rolled Steel 56 Frame Three Phase Motors

ODP - Electrical Data







NEMA Frame	2E	2F	A	AB	B	BA	D	HK	Hole H	J	LM	P	T	Shaft end						Bearings	
														d1	ES	N-W	R	S	U	D.E.	N.D.E.
56	4.874	3.000	6.535	3.323	4.016	2.750	3.500	0.118	0.343	1.734	NPT 1/2"	6.723	6.456	A 3.15	1.417	1.874	0.517	0.187	0.625	6303ZZ up to 0.75HP 6204ZZ from 1HP and up	6202ZZ
56H		3.000/5.000			6.496					1.593										6204ZZ	

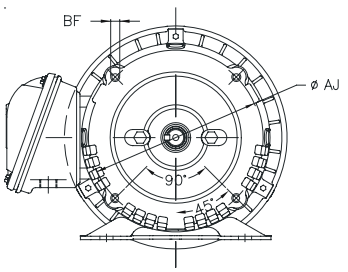
Standard Efficiency

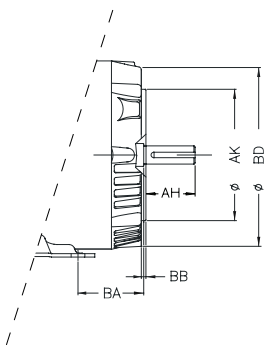
NEMA Frame	Output		Poles	C	FC
	HP	kW			
56	0.25	0.18	2	10.315	6.299
			4	9.921	5.906
			6	10.315	6.299
	0.33	0.25	2		
			4	9.921	5.906
			6	10.315	6.299
	0.5	0.37	2		
			4		
			6	10.709	6.693
	0.75	0.55	2		
			4		
56H			6	11.496	7.480

Premium Efficiency (DOE)

NEMA Frame	Output		Poles	C	FC
	HP	kW			
56	0.25	0.18	2	10.315	6.299
			4	9.921	5.906
			6	10.315	6.299
	0.33	0.25	2		
			4		
			6		
	0.5	0.37	2		
			4	10.709	6.693
			6		
	0.75	0.55	2		
			4	11.102	7.087
56H			6	12.677	8.661
56	1	0.75	2	10.709	6.693
			4	11.495	7.480
56H			6	13.071	9.055
56	1.5	1.1	2	11.889	7.874
			4	13.071	9.055
56H	2	1.5	2	12.677	8.661
			4	12.283	8.268
	3	2.2	2	13.071	9.055
			4		

"C" Flange Dimensions							
Frame	BA	Flange					
		AJ	AK	BB	BD	BF	AH
56C	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16	2.062
56HC							





W01 Rolled Steel NEMA 56 Frame Single Phase Motors

Standard Features

- Single Phase, 2 & 4 pole, 60Hz
- Voltage: 115/208-230V
- Open Drip Proof, fan cooled
- Die cast aluminum squirrel cage rotor
- Start Capacitor
- Ball bearings
- High starting torque
- Class “F” insulation (Δt 80°C)
- Paint: Munsell N1 – Flat Black
- WEG paint plan: 207N

Optional Features

- Flange mounted (C Flange)
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Automatic or manual thermal overload protection
- Other mounting configurations

W01 NEMA 48 & 56 Frame Single Phase Motors

ODP - Purchasing Data - Standard Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.25	3600	W56	$233	$301	0F.25102W01	4.00	2.00	15.4	9.472
	1800	W56	$261	$323	0F.25104W01	4.66	2.33	15.4	9.472
0.33	3600	W56	$233	$295	0F.33102W01	5.00	2.50	16.1	9.866
	1800	W56	$259	$321	0F.33104W01	6.24	3.12	16.8	9.866
0.5	3600	W56	$276	$338	0F.50102W01	6.68	3.34	18.7	10.260
	1800	W56	$301	$363	0F.50104W01	8.24	4.12	18.7	10.260
0.75	3600	W56	$254	$363	0F.75102W01	9.64	4.82	20.9	10.654
	1800	56	$383	$445	0F.75104W01	10.5	5.25	26.5	11.496
1	3600	56	$337	$399	0F000102W01	12.8	6.39	26.5	11.496
	1800	56	$425	$487	0F000104W01	13.5	6.75	30.9	11.890
1.5	3600	56	$458	$520	0F001102W01	17.2	8.60	30.9	11.890
	1800	56H	$524	$586	0F001104W01	19.0	9.49	40.1	13.071
2	3600	56H	$543	$605	0F002102W01	21.8	10.9	36.4	12.678
	1800	56H	$577	$639	0F002104W01	21.0	10.5	42.3	13.858
3	3600	56H	$665	$727	0F003102W01	26.4	13.2	41.2	13.465

Flange: For C Flange replace 'F' with 'C'

ODP - Purchasing Data - Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.25	3600	W56	$211	$264	0F.25102W01D0E	2.50	1.25	17.2	9.866
	1800	W56	$234	$287	0F.25104W01D0E	3.20	1.60	16.5	9.866
0.33	3600	W56	$211	$301	0F.33102W01D0E	3.20	1.60	19.4	10.260
	1800	W56	$231	$284	0F.33104W01D0E	4.20	2.10	17.6	10.260
0.5	3600	W56	$250	$302	0F.50102W01D0E	4.80	2.40	19.4	10.260
	1800	W56	$270	$323	0F.50104W01D0E	5.50	2.75	19.8	10.654
0.75	3600	56	$268	$327	0F.75102W01D0E	6.80	3.40	25.4	11.890
	1800	56	$402	$454	0F.75104W01D0E	6.80	3.40	30.9	11.890
1	3600	56	$306	$358	0F000102W01D0E	8.60	4.30	29.8	11.890
	1800	56	$447	$499	0F000104W01D0E	9.00	4.50	36.4	12.677
1.5	3600	56	$414	$467	0F001102W01D0E	13.3	6.65	32.0	12.284
	1800	56H	$551	$603	0F001104W01D0E	13.6	6.80	40.1	13.071
2	3600	56H	$491	$544	0F002102W01D0E	16.8	8.40	36.4	13.465
	1800	56H	$605	$658	0F002104W01D0E	18.6	9.30	45.2	13.858
3	3600	56H	$602	$654	0F003102W01D0E	24.4	12.20	42.3	13.858

Flange: For C Flange replace 'F' with 'C'

W01 NEMA 48 & 56 Frame Single Phase Motors

ODP - Electrical Data - Standard Efficiency

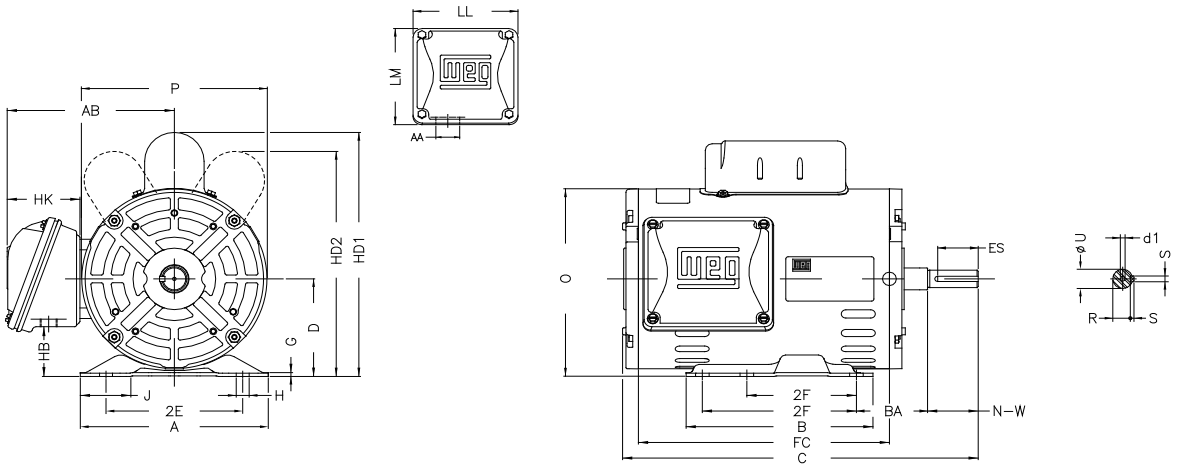
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V							50%	75%	100%	50%	75%	100%
0.25	0.18	3500	W56	4.00	2.00	7.2	300%	300%	10	15.4	1.35	43.0	50.0	55.0	0.55	0.64	0.71
		1735	W56	4.66	2.33	5.3	310%	180%	14	15.4	1.35	46.0	54.0	57.0	0.41	0.51	0.59
0.33	0.25	3500	W56	5.00	2.50	7.4	300%	300%	8	16.1	1.35	49.0	56.0	59.0	0.57	0.66	0.74
		1735	W56	6.24	3.12	5.6	330%	280%	12	16.8	1.35	49.0	57.0	60.0	0.41	0.50	0.58
0.5	0.37	3500	W56	6.68	3.34	8.2	280%	300%	6	18.7	1.25	54.0	61.0	65.0	0.55	0.66	0.74
		1735	W56	8.24	4.12	5.8	320%	270%	10	18.7	1.25	54.0	61.0	63.0	0.43	0.53	0.62
0.75	0.55	3500	W56	9.64	4.82	8.0	260%	300%	6	20.9	1.25	56.0	63.0	67.0	0.54	0.66	0.74
		1745	56	10.50	5.25	6.5	280%	270%	10	26.5	1.25	60.0	66.0	69.0	0.46	0.57	0.66
1	0.75	3500	56	12.78	6.39	6.9	260%	280%	8	26.5	1.25	60.0	65.0	68.0	0.55	0.67	0.75
		1745	56	13.50	6.75	6.7	270%	270%	7	30.9	1.15	43.0	68.0	71.0	0.48	0.60	0.68
1.5	1.1	3500	56	17.20	8.60	7.3	250%	270%	6	30.9	1.15	65.0	70.0	72.0	0.57	0.69	0.77
		1745	56H	18.98	9.49	6.9	270%	270%	7	40.1	1.15	66.0	72.0	73.0	0.48	0.60	0.69
2	1.5	3490	56H	21.80	10.90	7.8	250%	260%	6	36.4	1.15	69.0	72.0	75.0	0.60	0.72	0.80
		1740	56H	21.00	10.50	7.5	240%	260%	6	42.3	1.15	70.0	75.0	78.0	0.62	0.73	0.80
3	2.2	3485	56H	26.40	13.20	8.0	200%	250%	6	41.2	1.15	71.0	76.0	78.0	0.85	0.91	0.93

ODP - Electrical Data - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V							50%	75%	100%	50%	75%	100%
0.25	0.18	3510	W56	2.50	1.25	8.8	280%	310%	18	17.2	1.35	50.0	59.0	66.6	0.91	0.93	0.94
		1745	W56	3.20	1.60	7.5	290%	300%	20	16.5	1.35	53.0	62.0	68.5	0.56	0.65	0.71
0.33	0.25	3510	W56	3.20	1.60	8.8	180%	300%	15	19.4	1.35	56.0	64.0	70.5	0.97	0.97	0.97
		1745	W56	4.20	2.10	8.0	320%	320%	17	17.6	1.35	57.0	66.0	72.4	0.57	0.67	0.73
0.5	0.37	3510	W56	4.80	2.40	8.8	270%	300%	9	19.4	1.25	60.0	68.0	72.4	0.90	0.93	0.94
		1745	W56	5.50	2.75	7.7	310%	300%	15	19.8	1.25	63.0	71.0	76.2	0.60	0.70	0.77
0.75	0.55	3510	56	6.80	3.40	8.6	300%	300%	18	25.4	1.25	64.0	71.0	76.2	0.88	0.92	0.93
		1750	56	6.80	3.40	8.0	260%	250%	20	30.9	1.25	74.0	79.0	81.8	0.74	0.82	0.86
1	0.75	3510	56	8.60	4.30	8.4	290%	300%	16	29.8	1.25	69.0	76.0	80.4	0.89	0.93	0.94
		1750	56	9.00	4.50	8.4	260%	250%	15	36.4	1.15	75.0	80.0	82.6	0.75	0.83	0.87
1.5	1.1	3500	56	13.30	6.65	8.2	260%	270%	10	32.0	1.15	73.0	79.0	81.5	0.92	0.95	0.95
		1745	56H	13.60	6.80	8.0	260%	250%	22	40.1	1.15	76.0	81.0	83.8	0.72	0.81	0.84
2	1.5	3500	56H	16.80	8.40	8.6	250%	280%	8	36.4	1.15	76.0	81.0	82.9	0.90	0.94	0.94
		1740	56H	18.60	9.30	7.6	260%	250%	18	45.2	1.15	77.0	82.0	84.5	0.68	0.78	0.83
3	2.2	3500	56H	24.40	12.20	8.2	220%	280%	6	42.3	1.15	76.0	81.0	84.1	0.87	0.92	0.93

W01 NEMA 56 Frame Single Phase Motors

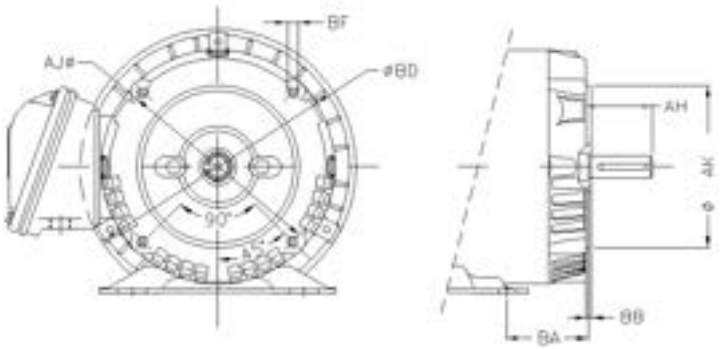
ODP - Mechanical Data



NEMA FRAMES	MOUNTING			A	B	D	O	P	HD1	KEYWAY			SHAFT EXTENSION		BEARINGS	
	2E	2F	BA							S	R	ES	N-W	U	D.E.	N.D.E.
W56	4.874	3.000	2.750	6.535	4.016	3.500	6.330	5.709	8.189	0.187	0.517	1.417	1.874	0.6250	6203ZZ	6202ZZ
56							6.723	6.456	8.618						6303ZZ up to 0.75HP 6204ZZ from 1HP and up	
56H		3.000 / 5.000			6.496										6204ZZ	

* The shaft of NEMA 48 frame motors shows a flat Chanfer with 0.291" of width instead of the keyway.
** NEMA 56H is provided with a double holed base - DIMENSION B: 3" AND 5".

"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		BB	AH
				NUMBER	TAP SIZE		
W56	5.874	4.500	6.468	4	UNC3/8"x16	0.157	2.062
56			6.450				
56H			6.450				



W22 Frame and up Single Phase Motors
TEFC

Standard Features

- Single Phase, 2, 4 & 6 pole, 60Hz
- Voltage: 1HP - 3HP: 115/208-230V or 208-230/460V
- Voltage: 5HP and up: 230V or 208-230/460V
- Totally Enclosed Fan Cooled (IP55)
- Steel plate frames (143/5T)
- Cast iron frames (182T up to 215T)
- Automatic drain plugs
- V-ring slingers on both endshields
- Capacitor Start
- Service Factor: 1.15
- Die cast aluminum squirrel cage rotor
- Ball bearings
- High starting torque
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mounting T-box
- Stainless steel nameplate from 182T frame and up
- Colour: RAL 7022 - Dark Gray
- WEG Paint plan: 207A

Optional Features

- C Flange
- D Flange from 182/4T
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Drip cover (canopy) for shaft down applications

W22 Frame and up Single Phase Motors

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'C' Flange2	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM						230V		
1	3600	F143/5T	$567	$676	---	TS000102	6.3	30	14.488
	1800	F143/5T	$585	$694	---	TS000104	7.0	34	14.488
	1200	G143/5T	$1,046	$1,155	---	TS000106	5.8	43	14.882
1.5	3600	F143/5T	$648	$733	---	TS001102	8.5	34	14.488
	1800	G143/5T	$666	$775	---	TS001104	9.0	46	14.882
	1200	182/4T	$1,188	$1,311	$1,320	TS001106W22	8.5	132	17.012
2	3600	G143/5T	$700	$809	---	TS002102	10.2	42	14.882
	1800	G143/5T	$790	$899	---	TS002104	10.8	51	14.882
	1800	182/4T	$942	$1,065	$1,074	TS002104W22182/4T	8.4	94	17.012
	1200	182/4T	$1,472	P.O.A	P.O.A	TS002106W22	10.0	132	17.012
	1200	213/5T	$1,429	$1,569	$1,577	TS002106W22213/5T	9.1	135	20.100
3	3600	G143/5T	$1,098	$1,207	---	TS003102	13.5	49	14.882
	3600	182/4T	$1,142	$1,266	$1,274	TS003102W22182/4T	11.6	95	17.012
	1800	182/4T	$931	$1,055	$1,064	TS003104W22	15.1	104	17.012
	1200	213/5T	$1,521	$1,661	$1,668	TS003106W22	15.5	135	20.100
5	3600	182/4T	$1,317	$1,441	$1,450	TS005102W22	19.0	108	17.012
	1800	182/4T	$1,123	$1,246	$1,255	TS005104W22	21.4	116	17.012
	1800	213/5T	$1,484	$1,624	$1,631	TS005104W22213/5T	21.4	148	20.100
	1200	213/5T	$1,715	$1,855	$1,862	TS005106W22	20.7	169	20.100
7.5	3600	182/4T	P.O.A	P.O.A	P.O.A	TS007102W22182/4T	28.2	115	17.012
	3600	213/5T	$1,823	$1,963	$1,970	TS007102W22	28.0	165	20.100
	1800	213/5T	$1,737	$1,877	$1,884	TS007104W22S	30.6	176	20.100
	1800	213/5TZ	$1,737	$1,877	$1,884	TS007104W22	30.6	176	19.470
10	3600	213/5T	$2,182	$2,322	$2,329	TS010102W22	38.8	165	20.100
	1800	213/5T	$2,105	$2,245	$2,253	TS010104W22	40.8	191	20.100
12.5	3600	213/5T	$2,400	$2,540	$2,548	TS012102W22	46	183	20.100
	1800	213/5T	$2,316	$2,456	$2,472	TS012104W22	54.4	205	20.100

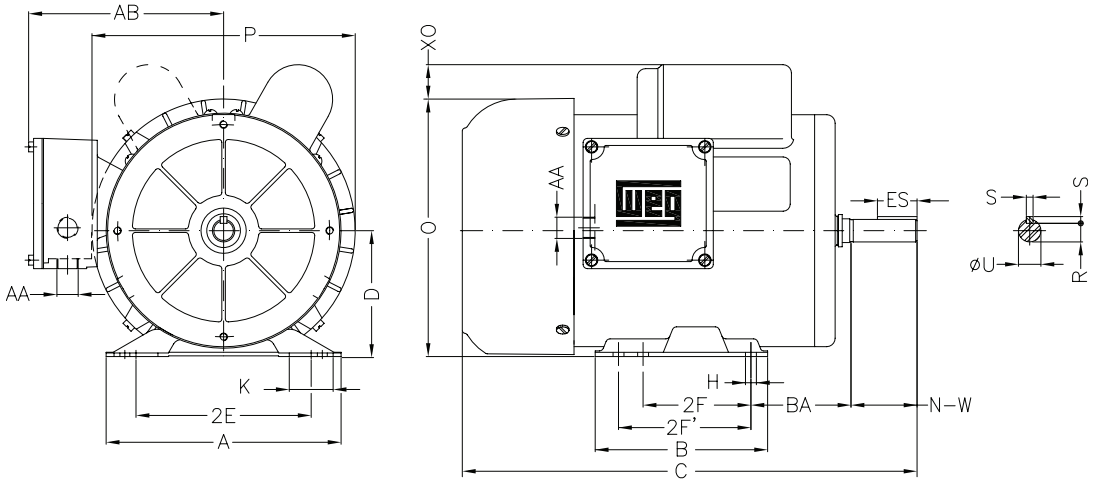
D Flange Not Available in frames 143/5T

TEFC - Electrical Data

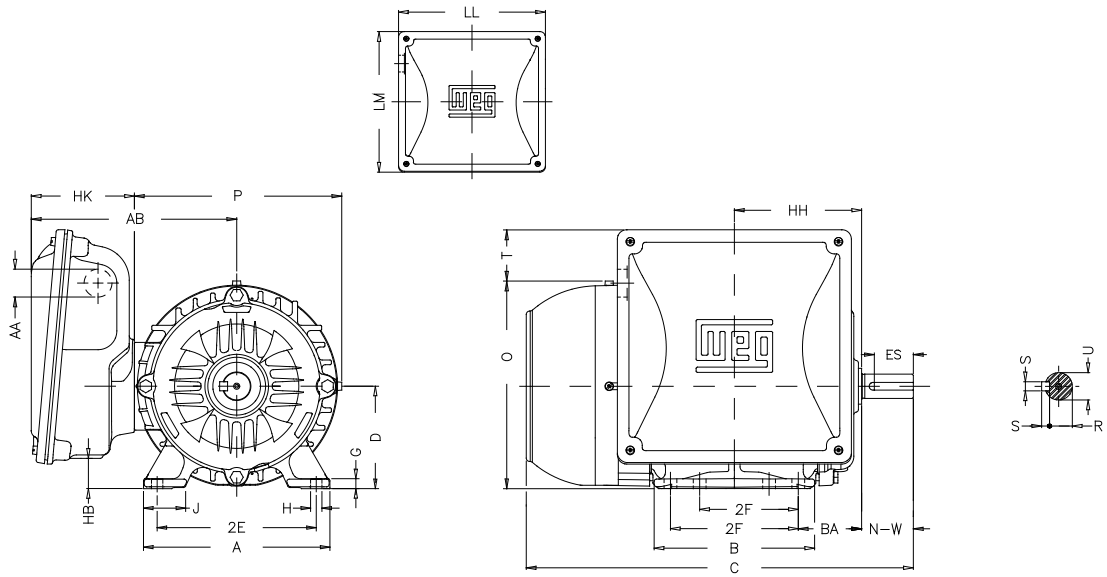
Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP			230V							50%	75%	100%	50%	75%	100%
1.00	3500	F143/5T	6.40	7.0	320%	280%	6	37.0	1.15	55.0	63.0	67.0	0.56	0.67	0.75
	1750	F143/5T	7.00	6.5	320%	270%	6	39.0	1.15	60.0	67.0	70.3	0.45	0.56	0.65
	1160	G143/5T	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	3480	F143/5T	8.55	6.8	250%	250%	6	34.8	1.15	62.0	69.0	70.0	0.61	0.72	0.80
	1750	G143/5T	8.70	6.5	280%	260%	6	48.0	1.15	70.0	75.0	76.5	0.52	0.64	0.72
	1185	182/4T	8.50	8.2	250%	320%	10	132.0	1.15	58.4	67.3	72.0	0.62	0.72	0.78
2.0	3470	G143/5T	10.00	7.0	250%	240%	6	49.0	1.15	69.0	73.0	74.0	0.72	0.81	0.87
	1750	G143/5T	10.50	6.9	280%	250%	6	55.0	1.15	74.0	78.0	78.1	0.60	0.71	0.78
	1740	182/4T	8.40	7.4	290%	230%	8	94.0	1.15	69.0	76.5	80.0	0.96	0.97	0.97
	1180	182/4T	10.00	8.0	240%	270%	14	132.0	1.15	65.2	73.0	77.0	0.72	0.81	0.85
	1175	213/5T	9.10	8.1	185%	230%	6	135.0	1.15	65.5	74.0	77.0	0.85	0.91	0.93
3.00	3480	G143/5T	13.00	7.8	250%	250%	6	56.0	1.15	75.0	79.0	80.0	0.82	0.90	0.93
	3520	182/4T	11.60	7.7	250%	260%	9	95.0	1.15	80.0	83.0	84.0	0.97	0.98	0.98
	1745	182/4T	15.10	6.9	290%	270%	8	104.0	1.15	65.0	74.0	77.0	0.74	0.80	0.82
	1160	213/5T	15.50	5.3	155%	160%	6	135.0	1.00	60.7	68.8	70.6	0.81	0.88	0.90
5	3515	182/4T	19.00	7.1	280%	250%	7	106.0	1.15	80.0	84.0	85.5	0.96	0.99	0.99
	1730	182/4T	21.40	6.5	330%	235%	7	116.0	1.15	72.5	78.5	80.0	0.89	0.93	0.94
	1745	213/5T	21.40	6.7	330%	260%	7	148.0	1.15	72.5	78.5	80.0	0.90	0.93	0.94
	1175	213/5T	20.70	8.4	220%	250%	14	169.0	1.15	78.9	83.9	82.5	0.91	0.94	0.94
7.5	3505	182/4T	28.20	7.5	280%	260%	9	115.0	1.15	79.0	83.5	85.5	0.99	0.99	0.99
	3510	213/5T	28.20	7.2	280%	290%	7	163.0	1.15	78.5	84.0	85.5	0.99	0.99	0.99
	1740	213/5T	30.60	7.0	330%	250%	7	176.0	1.15	76.0	81.0	82.5	0.89	0.93	0.95
	1740	213/5TZ	30.50	7.0	330%	250%	7	176.0	1.15	76.0	81.0	82.5	0.89	0.93	0.95
10	3515	213/5T	38.80	7.0	230%	290%	8	163.0	1.15	82.0	85.5	86.5	0.96	0.97	0.97
	1740	213/5T	40.80	6.7	260%	250%	13	191.0	1.15	78.0	82.0	82.5	0.90	0.95	0.97
12.5	3510	213/5T	46.00	7.3	210%	280%	8	183.0	1.15	86.0	88.0	88.5	0.98	0.98	0.98
	1740	213/5T	54.40	8.0	220%	240%	6	205.0	1.15	77.0	81.5	82.5	0.75	0.84	0.89

140T Frame and up Single Phase Motors

TEFC - Mechanical Data



NEMA FRAMES	MOUNTING					A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		AB	AA	BEARINGS	
	2E	2F	H	H1	BA								S	R	ES	N-W	U			D.E.	N.D.E.
F143T	5.500	5.000	0.343	-	2.250	6.535	6.498	14.834	3.500	7.165	7.323	1.064	0.187	0.766	1.417	2.250	0.875	5.433	NPT0.75"	6205-ZZ	6203-ZZ
G145T								15.228													

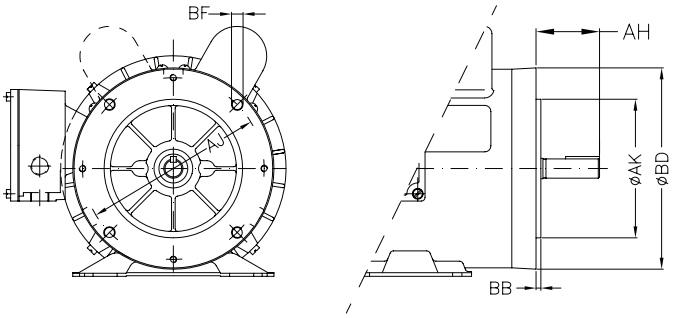


NEMA Frames	Mounting				A	B	C	D	G	J	O	P	T	Keyway			Shaft Extension		AB	AA	Bearings	
	2E	2F	H	BA										S	R	ES	N-W	U			D.E.	N.D.E.
182/4T	7.500	4.500/5.500	0.410	2.750	8.661	6.969	17.012	4.500	0.394	1.614	8.897	8.937	2.128	0.250	0.984	1.969	2.750	1.125	8.110	NPT 1"	6207-ZZ	6206-ZZ
213/5T	8.500	5.500/7.000	0.410	3.500	9.764	8.858	20.100	5.250	0.669	1.791	10.840	10.787	1.720	0.313	1.203	2.480	3.375	1.375	9.244	NPT 1"	6308-ZZ	6206-ZZ
213/5TZ	8.500	5.500/7.000	0.410	3.500	9.764	8.858	19.470	5.250	0.669	1.791	10.840	10.787	1.720	0.250	0.984	1.969	2.750	1.125	9.212	NPT 1"	6308-ZZ	6206-ZZ

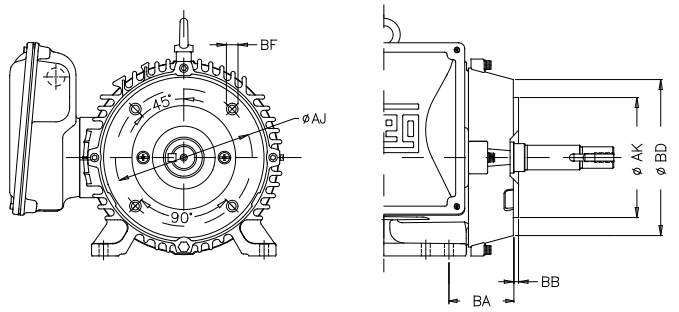
140T Frame and up Single Phase Motors

TEFC - Mechanical Data

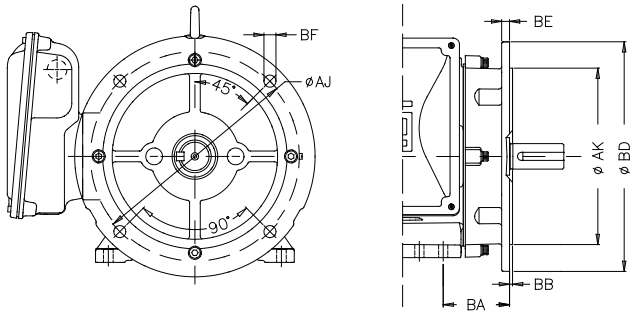
"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		BB	AH
				NUMBER	TAP SIZE		
F143/5T G143/5T	5.875	4.500	6.535	4	16	0.157	2.125



"C" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		BB
				NUMBER	TAP SIZE	
182/4T 213/5T	7.250	8.500	8.875	4	UNC 1/2"x13	0.250



"D" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		BB
				NUMBER	TAP SIZE	
182/4T 213/5T	10.000	9.000	11.000	4	0.551	0.197



180T Frame and up Single Phase Motors
ODP

Standard Features

- Single Phase, 2 & 4 pole, 60Hz
- Voltage: 208-230V or 115/208-230V & 460V (5HP and up)
- Open Drip Proof (IP22), fan cooled
- Service Factor: 1.15
- Die cast aluminum squirrel cage rotor
- Ball bearings
- High starting torque
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mounting T-box
- Colour: RAL 7022 - Dark Gray
- WEG Paint plan: 207A

Optional Features

- C Flange
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Drip cover (canopy) for shaft down applications

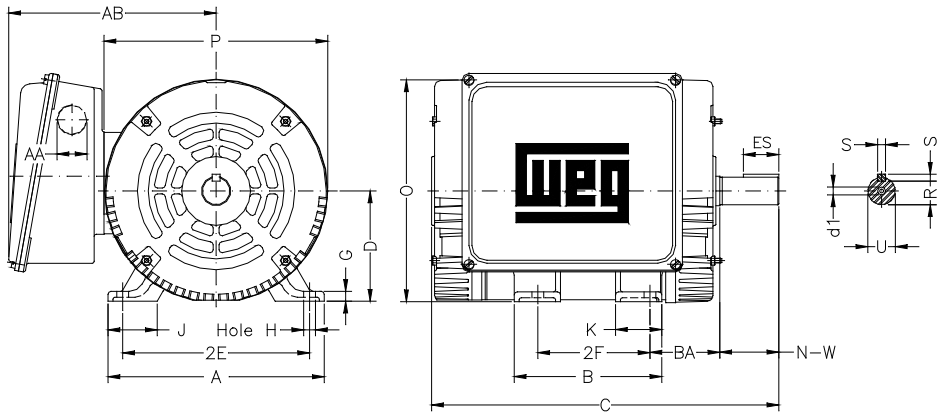
180T Frame and up Single Phase Motors

ODP - Purchasing and Mechanical Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current 230V	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM							
3	3600	182T	$838	$948	DP003102	15.0	89	14.448
	1800	184T	$838	$948	DP003104	17.5	100	14.870
5	3600	184T	$920	---	DP005102*	21.0	91	14.870
	1800	184T	$920	---	DP005104S*	23.3	115	14.870
7.5	3600	184T	$1,200	$1,311	DP007102	30.0	115	14.870
	1800	215T	P.O.A	P.O.A	DP007104	-	147	19.500

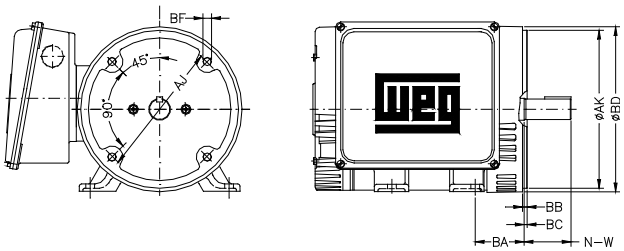
Flange: For C Flange replace 'DP' with 'CP'

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP			230V							50%	75%	100%	50%	75%	100%
3.00	3520	182T	15.00	6.4	230%	260%	6	89.0	1.25	78.0	81.0	81.5	0.60	0.71	0.79
	1750	184T	17.50	6.5	210%	200%	6	100.0	1.25	71.0	74.0	75.0	0.56	0.68	0.75
5.00	3500	184T	21.00	6.5	260%	200%	6	91.0	1.25	80.0	81.5	81.5	0.85	0.91	0.92
	1750	184T	23.20	6.8	220%	200%	6	115.0	1.25	79.5	80.0	81.5	0.70	0.75	0.80
7.5	3500	184T	30.00	7.2	240%	230%	6	115.0	1.25	82.0	84.0	85.0	0.90	0.93	0.95
	1760	215T	32.30	7.9	220%	250.0	6	147.0	1.15	77.0	81.5	82.5	0.80	0.85	0.90



NEMA FRAMES	Mounting					A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	2F1	H	BA											S	R	ES	N-W	U				D.E.	N.D.E.
182T	7.500	4.500	5.500	0.406	2.750	8.661	6.299	13.504	4.500	0.187	1.171	1.988	8.307	7.637	X	0.250	0.984	1.771	2.750	1.125	8.346	NPT0.75"	A4	6206-ZZ	6205-ZZ
184T								14.291																	
213T	8.500	5.500	7.000		3.488	9.448	7.952	17.165	5.250		1.063	2.567	9.842	8.779	1.378	0.312	1.203	2.480	3.375	1.375				6208-ZZ	6206-ZZ
215T																									

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
182/4T	2.750	7.250	8.500	8.875	4	UNC0.5"x16	0.250	0.125	2.625
213/5T	3.500							0.250	3.125



NEMA 56 Frame Explosion Proof Motors
TEFC

Standard Features

- Single and Three Phase, 4 pole, 60 Hz
- Voltage:
  - Single Phase 115/208-230V
  - Three Phase 208-230/460 or 575V
- Totally Enclosed Fan Cooled (IP44)
- Die cast aluminum squirrel cage rotor
- Ball bearings
- Overload protection:
  - Single Phase: Automatic Thermostats
  - Three Phase: Thermostats
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2200V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Continuous Duty
- 40°C ambient
- High starting torque
- Service Factor: 1.15
- Insulation class 'B' (Δt 80°C)
- Paint: RAL 7022 (Grey)
- WEG Paint Plan: 207N
- Terminal box included

TEMP CODE T3C
Class I, Div 1, Groups C & D
Class II, Div 1, Groups F & G

Optional Features

- C Flange
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations

NEMA 56 Frame Explosion Proof Motors

TEFC - Purchasing & Electrical Data

Single Phase

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.33	1800	A56EX	$727	$813	XF.33104	6.50	3.25	32.6	11.41
0.5	1800	B56EX	$783	$869	XF.50104	7.40	3.70	36.8	12.204
0.75	1800	D56EX	$865	$951	XF.75104	11.0	5.50	41.9	13.385
1	1800	D56EX	$945	$1,030	XF000104	11.4	5.70	43.7	13.385

Flange: For "C" flange replace 'F' with 'C'

Three Phase

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					460V	575V		
0.33	1800	A56EX	$741	$822	XF.33X04	0.65	0.52	29.5	11.41
0.5	1800	B56EX	$775	$856	XF.50X04	0.81	0.65	33.1	12.204
0.75	1800	B56EX	$807	$889	XF.75X04	1.16	0.93	36.2	12.204

Flange: For "C" flange replace 'F' with 'C'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Single Phase

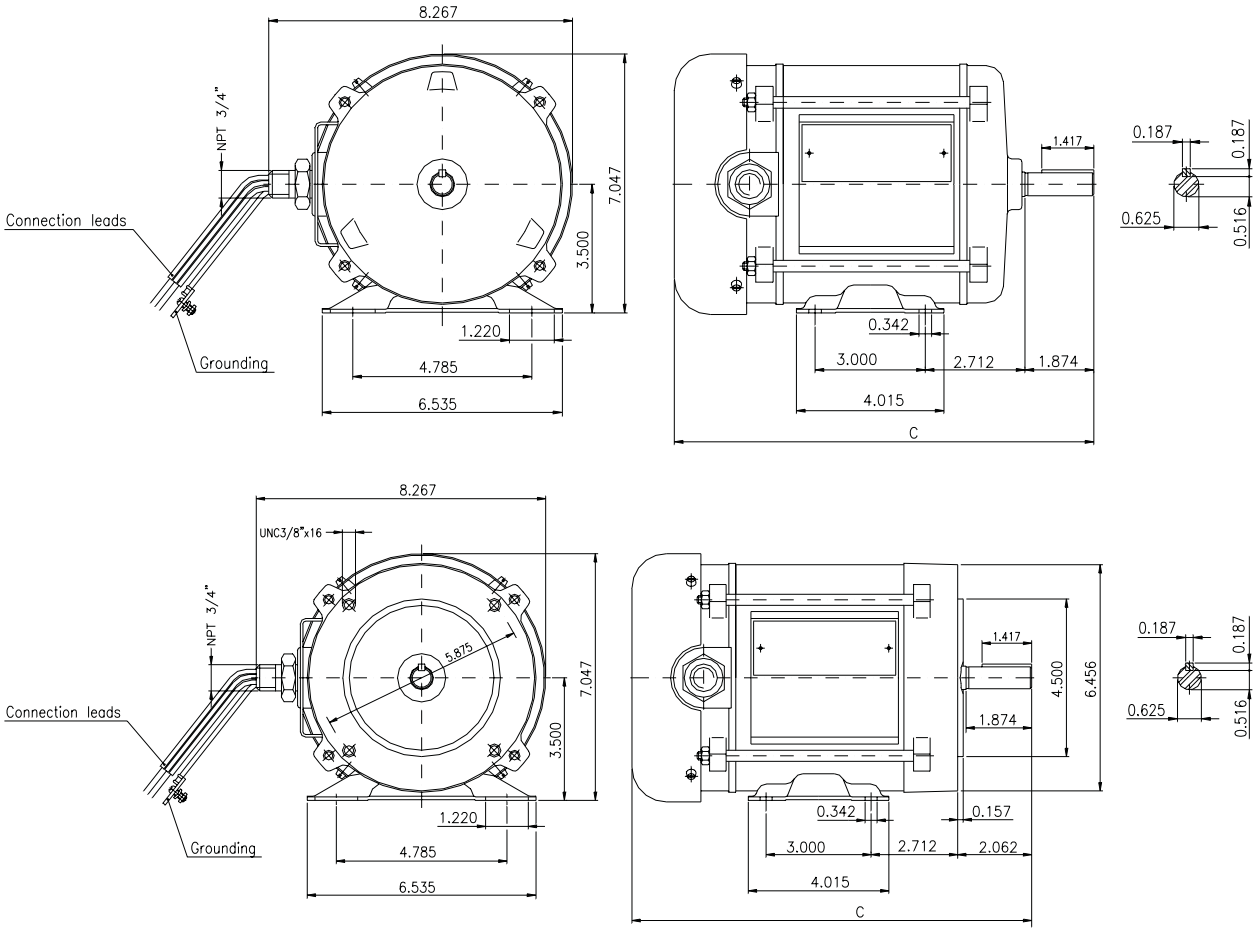
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (II/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
0.33	0.25	1755	A56EX	6.50	3.25	5.4	310%	290%	32.6	1.15	46.5	55.2	60.2	0.39	0.48	0.54
0.5	0.37	1750	B56EX	7.40	3.70	6.0	280%	220%	36.8	1.15	57.0	64.0	68.6	0.44	0.55	0.63
0.75	0.55	1760	D56EX	11.0	5.50	6.4	320%	300%	41.9	1.15	57.0	65.0	71.5	0.42	0.53	0.61
1	0.75	1740	D56EX	11.4	5.70	5.4	190%	210%	43.7	1.15	72.1	74.7	74.9	0.56	0.68	0.75

Three Phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (II/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			460V	575V						50%	75%	100%	50%	75%	100%
0.33	0.25	1750	A56EX	0.65	0.52	5.2	240%	300%	29.5	1.15	66.0	72.0	74.0	0.43	0.50	0.65
0.5	0.37	1755	B56EX	0.81	0.65	6.8	220%	330%	33.1	1.15	70.0	75.5	77.5	0.52	0.64	0.73
0.75	0.55	1730	B56EX	1.16	0.93	5.7	240%	280%	36.2	1.15	77.0	80.0	81.5	0.53	0.66	0.74

NEMA 56 Frame Explosion Proof Motors

TEFC - Mechanical Data



NEMA FRAMES	C	BEARINGS	
		D.E	N.D.E.
A56	11.410	6203-ZZ	
B56	12.204		
D56	13.385		

W01 Compressor Duty Motors
ODP

Standard Features

- Single Phase, 2 and 4 poles, 60 Hz
- Voltage:
  - 115/208-230V up to 3HP
  - 208-230V for 5HP
- Open Drip Proof (IP21)
- Die cast aluminum squirrel cage rotor
- Capacitor start
- Insulation class 'F'
- Ball bearings
- Manual overload
- High starting torque
- Service Factor: 1.0
- Paint: Munsell N1 - Matte (Black)
- WEG Paint Plan: 207N

Optional Features

- C Flange
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations

W01 Compressor Duty Motors

ODP - Purchasing & Electrical Data

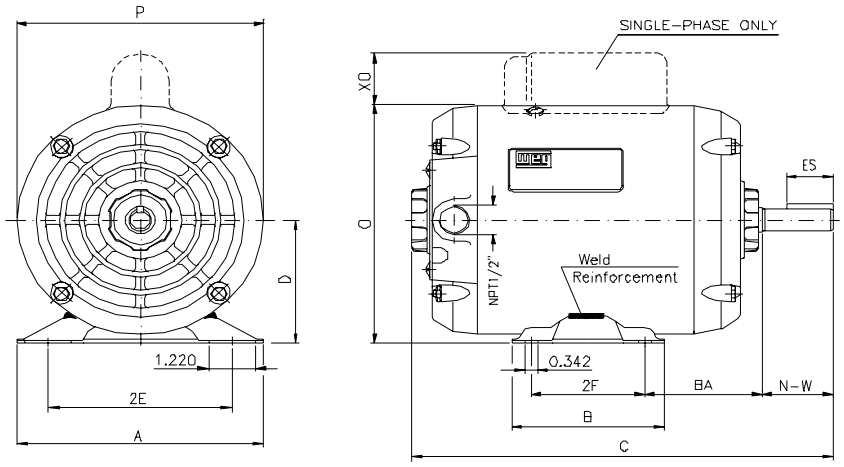
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.5	3600	W56	$323	$385	CD.50102W01	7.34	3.67	22.7	10.240
0.75	3600	W56	$363	$425	CD.75102W01	11.3	5.67	23.8	10.634
1	3600	W56	$409	$471	CD000102W01	14.0	7.01	23.3	11.028
1.5	3600	56	$416	$478	CD001102W01	16.2	8.10	26.7	11.815
2	3600	56H	$456	$518	CD002102W01	19.8	9.88	30.1	12.209
3	3600	56H	$487	$549	CD003102W01	27.8	13.9	35.9	12.996
5	3600	56H	$586	$648	CD005102W01	--	20.5	49.2	14.571

Flange: For "C" flange add 'C' to end of Part Number

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
0.5	0.37	3460	W56	7.34	3.67	6.0	180%	210%	22.7	1.00	51.7	59.5	60.0	0.52	0.63	0.73
0.75	0.55	3455	W56	11.3	5.67	5.8	180%	230%	23.8	1.00	52.0	60.0	63.0	0.47	0.58	0.67
1	0.75	3445	W56	14.0	7.01	5.3	180%	210%	23.3	1.00	56.0	62.8	65.5	0.51	0.63	0.71
1.5	1.1	3480	56	16.2	8.10	6.2	200%	230%	26.7	1.00	57.0	65.4	72.0	0.63	0.74	0.82
2	1.5	3480	56H	19.8	9.88	6.2	180%	220%	30.1	1.00	60.0	69.8	75.0	0.67	0.78	0.86
3	2.2	3470	56H	27.8	13.9	6.4	180%	210%	35.9	1.00	70.0	75.5	79.0	0.70	0.80	0.87
5	3.7	3455	56H	--	20.5	6.5	210%	200%	49.2	1.00	74.6	78.5	80.0	0.96	0.97	0.98

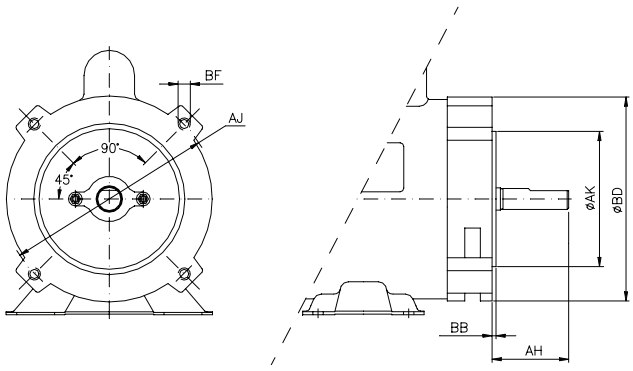
Compressor Duty Motors

ODP - Mechanical Data



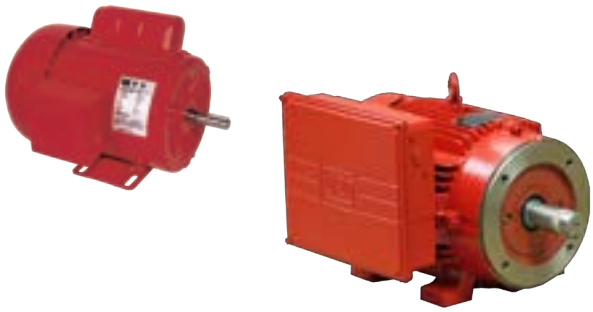
NEMA FRAMES	MOUNTING			A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		BEARINGS	
	2E	2F	BA								S	R	ES	N-W	U	D.E.	N.D.E.
W56	4.874	3.000	2.750	6.535	4.016	11.815	3.500	6.335	5.669	1.889	0.187	0.517	1.417	1.874	0.625	6203-ZZ	6202-ZZ
56						13.39		6.728	6.457	1.382						6204-ZZ	
56H					6.496	14.571				1.819							

"C" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		AH
				NUMBER	TAP SIZE	
FC-95	3.748	3.000	5.629	4	UNC0.25"	1.689
FC-149	5.874	4.500	6.496		UNC3/8"	2.063



Farm Duty Motors
TEFC

Standard Features



- Single Phase, 4 pole, 60 Hz
- Voltage:
  - 115/230V up to frame G145T
  - 230V above frame G145T
- Totally Enclosed Fan Cooled (IP55)
- Die cast aluminum squirrel cage rotor
- Capacitor start
- Run capacitor for 2HP and up
- V Ring in both endshields
- Manual thermal overload protection
- High starting torque
- Insulation class:
  - 'B' up to frame G145T
  - 'F' for frame W182/4T and up
- Ball bearings
- Service Factor: 1.15
- Continuous Duty (S1), 40°C ambient
- Paint: RAL 3002 (Red)
- WEG paint plan: 207A

Optional Features

- Class 'F' insulation (up to frame G145T)
- Class 'H' insulation (frames W182/4T and up)
- C Flange
- D Flange (frame W182/4T and up)
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft

Farm Duty Motors

TEFC - Purchasing & Electrical Data

Single Phase

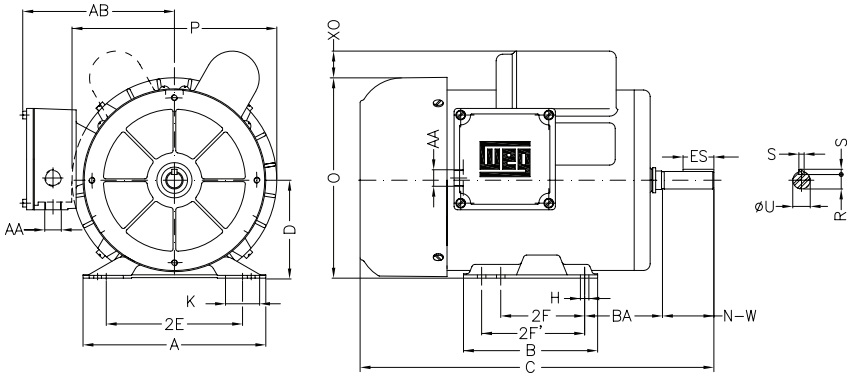
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.33	1800	B56	$288	$350	FD.33104	5.60	2.80	21.6	11.102
0.5	1800	B56	$301	$363	FD.50104	7.40	3.70	24.5	11.102
0.75	1800	B56	$374	$436	FD.75104	10.6	5.30	27.8	11.102
1	1800	D56	$378	$440	FD000104	14.0	7.00	37.9	12.283
	1800	F143T	$398	$514	FD000104S	14.0	7.00	37.5	14.488
1.5	1800	F56H	$442	$504	FD001104	17.4	8.70	50.3	13.464
	1800	G145T	$462	$578	FD001104S	17.4	8.70	50.0	14.882
2	1800	G145T	$564	$626	FD002104	21.0	10.5	52.9	14.882
	1800	G56H	$557	$673	FD002104S	21.0	10.5	50.7	13.858
	1800	W182/4T	$756	$886	FD002104W	20.0	10.0	81.8	17.240
3	1800	W182/4T	$817	$981	FD003104W	29.0	14.5	88.2	17.240
5	1800	184T	$912	$1,042	FD005104	--	21.4	112	17.050
	1800	182/4T	$956	$1,067	FD005104W01	--	19.9	115	--
	1800	W213/5TZ	$1,171	$1,317	FD005104W	--	21.4	126	21.000
7.5	1800	215T	$1,431	$1,577	FD007104	--	33.0	157	19.500
	1800	215TZ	$1,431	$1,577	FD007104S	--	33.0	157	19.500
10	1800	215T	$1,696	$1,842	FD010104	--	40.0	176	19.500

Flange: For "C" flange add 'C' to end of Part Number

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
0.33	0.25	1750	B56	5.60	2.80	5.8	340%	280%	21.6	1.15	49.0	58.0	61.0	0.44	0.53	0.62
0.5	0.37	1750	B56	7.40	3.70	5.8	290%	270%	24.5	1.15	56.0	64.0	66.5	0.46	0.57	0.65
0.75	0.55	1745	B56	10.6	5.30	6.2	300%	250%	27.8	1.15	58.5	66.0	68.5	0.47	0.58	0.66
1	0.75	1750	D56	14.0	7.00	6.5	320%	270%	37.9	1.15	60.0	67.0	70.3	0.45	0.56	0.65
		1750	F143T	14.0	7.00	6.5	320%	270%	37.5	1.15	60.0	67.0	70.3	0.45	0.56	0.65
1.5	1.1	1750	F56H	17.4	8.70	6.5	280%	260%	50.3	1.15	70.0	75.0	76.5	0.52	0.64	0.72
		1750	G145T	17.4	8.70	6.5	280%	260%	50.0	1.15	70.0	75.0	76.5	0.52	0.64	0.72
2	1.5	1750	G145T	21.0	10.5	6.9	280%	250%	52.9	1.15	74.0	78.0	78.1	0.60	0.71	0.78
		1750	G56H	21.0	10.5	6.9	280%	250%	50.7	1.15	74.0	78.0	78.1	0.60	0.71	0.78
		1725	W182/4T	20.0	10.0	6.0	250%	240%	81.8	1.15	76.0	80.0	81.0	0.77	0.83	0.88
3	2.2	1740	W182/4T	29.0	14.5	6.0	260%	220%	88.2	1.15	80.0	80.5	81.0	0.73	0.81	0.86
5	3.7	1730	184T	--	21.4	8.0	370%	270%	112	1.15	72.0	78.0	79.0	0.86	0.92	0.95
		1730	182/4T	--	19.9	6.0	320%	300%	115	1.15	74.0	81.5	84.0	0.93	0.95	0.96
		1730	W213/5T	--	21.4	8.0	370%	270%	126	1.15	72.0	78.0	79.0	0.86	0.92	0.95
7.5	5.5	1730	215T	--	33.0	7.5	400%	260%	157	1.15	77.0	81.0	83.0	0.71	0.81	0.90
10	7.5	1720	215T	--	40.0	6.2	280%	210%	176	1.15	80.0	82.5	83.0	0.92	0.95	0.96
12.5	9.2	1730	215T	--	48.0	7.0	220%	200%	191	1.00	80.0	83.5	84.0	0.96	0.98	0.97

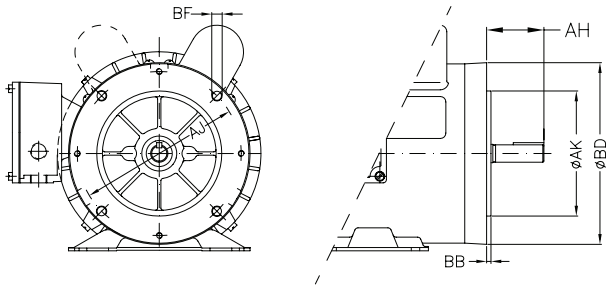
Farm Duty Motors

TEFC - Mechanical Data



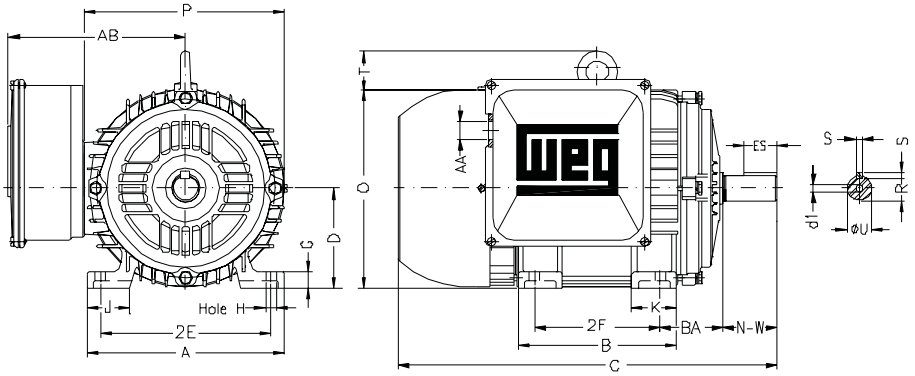
NEMA Frames	Mounting					A	B	C	D	O	P	XO	Keyway			Shaft Extension		AB	AA	Bearings	
	2E	2F	H	H1	BA								S	R	ES	N-W	U			D.E.	N.D.E.
B56	4.875	3.000	0.343	1.220	2.750	6.535	4.016	11.102	3.500	7.165	7.323	1.064	0.187	0.517	1.102	1.874	0.625	5.433	NPT0.5"	6203-ZZ	6202-ZZ
D56								12.283													
F56H		5.000					6.498	13.464												6204-ZZ	6203-ZZ
G56H								13.858													
F143T	5.500				2.250			14.488						0.766	1.417	2.250	0.875		NPT0.75"	6205-ZZ	
G145T								14.882													

NEMA Frames	"C" Flange Dimensions						
	AJ	AK	BD	BF		BB	AH
				Number	Tap Size		
B56	5.875	4.500	6.535	4	UNC3/8"x16	0.157	2.063
D56							
F56H							
G56H							
F143T							2.125
G145T							



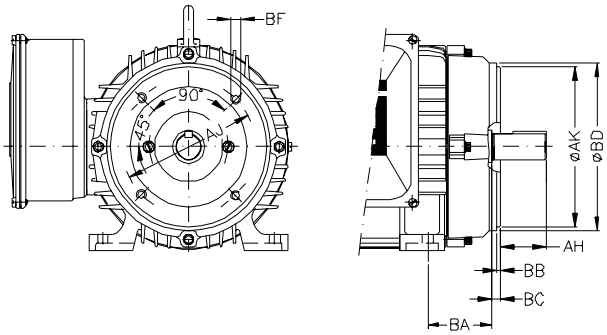
Farm Duty Motors

TEFC - Mechanical Data



NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N-W	U				D.E.	N.D.E.
W182/4T	7.500	4.500	0.406	2.750	8.661	6.968	17.240	4.500	0.630	1.890	2.441	8.267	7.800	1.851	0.250	1.234	1.771	2.750	1.125	7.362	NPT0.75"	A4	6206-ZZ	6206-ZZ
184T		5.500					17.050				1.968		8.820							7.835			6307-ZZ	
W213/5T	8.500	7.000		3.500	9.765	8.875	21.000	5.250	0.830	2.000	3.343	9.610		1.890	0.312	1.516	2.480	3.375	1.375	7.953	NPT1"		6308-ZZ	
215T							19.500				2.165		10.630							9.055				

NEMA Frames	"C" Flange Dimensions							
	AJ	AK	BD	BF		BB	BC	AH
				Number	Tap Size			
W182/4T	7.250	8.500	8.860	4	UNC0.5"x13	0.250	0.250	3.120
184T								
W213/5T								
215T								



Farm Duty Motors - Grain Dryer

TEAO

Standard Features

- Single Phase, 2 pole, 60 Hz
- Voltage:
  - 230V
- Totally Enclosed Air Over
- Die cast aluminum squirrel cage rotor
- Capacitor start
- Run capacitor for 1.5HP and up
- V Ring in both endshields
- High starting torque
- Ball bearings
- Service Factor: 1.0
- 40°C ambient
- Paint: RAL 7031
- WEG paint plan: 207N
- Designed for air over direct coupling crop dryer vane axial fans
- Capable of continuous duty operation
- Class F insulation
- Normally-closed thermostats (one per phase)
- 30 inch extended leads
- Longer than NEMA shaft end
- Low profile lifting lugs
- Drive End with locked bearing and threaded center hole
- Spare nameplate and IP55 ingress protection

Farm Duty Motors - Grain Dryer

TEAO - Purchasing & Electrical Data

Single Phase

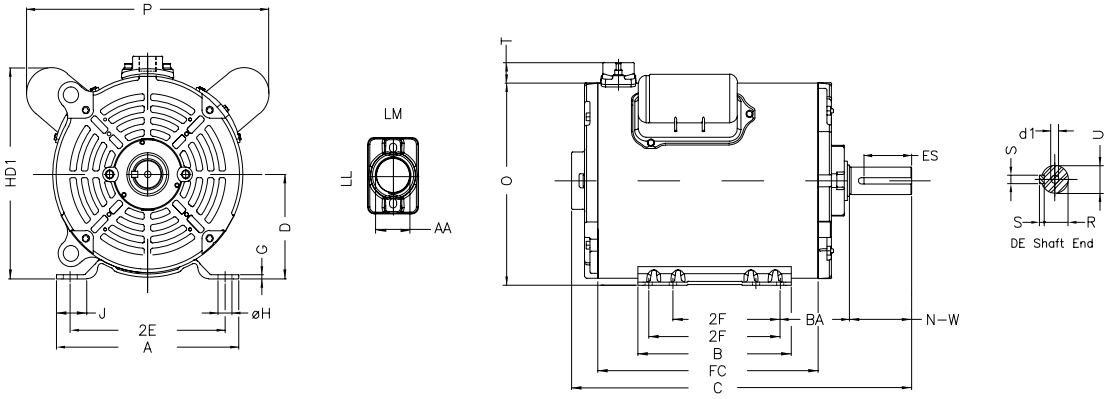
Rated Output		NEMA Frame	List Price	Part Number	Full Load Content	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				230V		
1.5-3	3600	143/5TZ	$679	FDGD003102W01	12.4	40.9	13.555
3-4.5	3600	143/5TZ	TBC	FDGD005102W01	17.9	57.6	15.130
5-7.5	3600	182/4TZ	$1,112	FDGD007102W01	29.1	82.9	17.070
7.5-10	3600	182/4TZ	$1,312	FDGD010102W01	39.5	99.2	17.858
10-15	3600	213/5TZ	$2,021	FDGD015102W01	55.5	181	19.720

Flange: For "C" flange add 'C' to end of Part Number

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
1.5-3	3600	3476	143/5TZ	5.60	2.80	7.4	250%	250%	40.9	1.0	72.2	78.5	80.6	0.87	0.94	0.96
3-4.5	3600	3460	143/5TZ	7.40	3.70	7.0	160%	240%	57.6	1.0	75.5	81.5	82.5	0.9	0.95	0.97
5-7.5	3600	3508	182/4TZ	10.6	5.30	7.7	200%	260%	82.9	1.0	79.3	83.2	83.9	0.97	0.98	0.98
7.5-10	3600	3490	182/4TZ	14.0	7.00	8.0	190%	340%	99.2	1.0	78	83	85	0.94	0.96	0.97
10-15	3600	3510	213/5TZ	14.0	7.00	7.3	160%	290%	181	1.0	86	88	88	0.9	0.96	0.65

Farm Duty Motors - Grain Dryer

TEAO - Mechanical Data

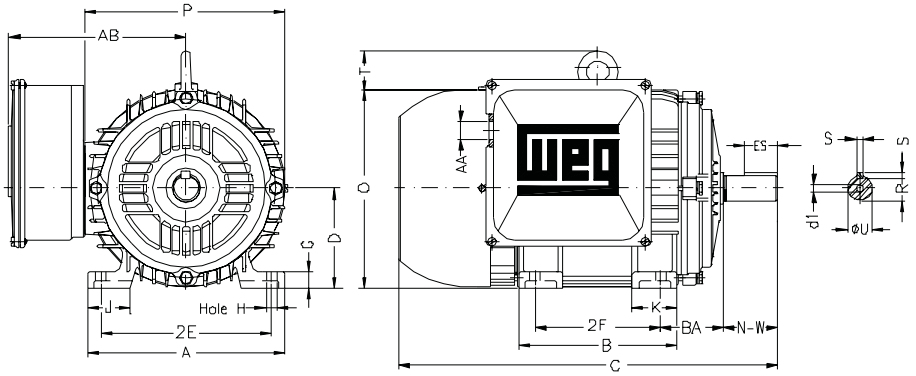


NEMA Frames	2E	J	A	P	2F	B	BA	Shaft End					
								U	d1	N-W	ES	R	S
143/5TZ	5.500	1.732	6.535	10.665	4.000/5.0000	6.496	2.250	0.875	EUNC 1/4" - 20	3.000	1.417	0.771	0.187
182/4TZ	7.500	1.299	8.661	12.36	4.000/5.5000	6.299	2.750	1.125	EUNC 1/4" - 20	3.500	1.969	0.984	0.250
213/5TZ	8.500	1.575	9.449	13.291	5.500/7.000	7.953	3.500	1.125	EUNC 1/4" - 20	3.750	1.969	0.984	0.250

NEMA Frames	D	G	O	Hole H	HD1	AA
143/5TZ	3.500	0.120	6.732	0.343	7.614	NPT 3/4"
182/4TZ	4.500	0.167	8.557	0.406	8.976	
213/5TZ	5.250	0.167	10.157	0.406	11.215	NPT 1"

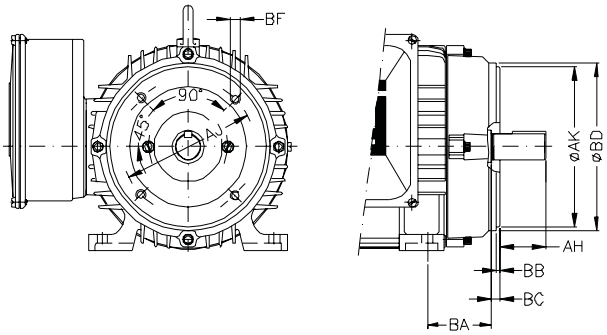
Farm Duty Motors

TEFC - Mechanical Data



NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N-W	U				D.E.	N.D.E.
W182/4T	7.500	4.500	0.406	2.750	8.661	6.968	17.240	4.500	0.630	1.890	2.441	8.267	7.800	1.851	0.250	1.234	1.771	2.750	1.125	7.362	NPT0.75"	A4	6206-ZZ	6206-ZZ
184T		5.500					17.050				1.968		8.820							7.835			6307-ZZ	
W213/5T	8.500	7.000		3.500	9.765	8.875	21.000	5.250	0.830	2.000	3.343	9.610		1.890	0.312	1.516	2.480	3.375	1.375	7.953	NPT1"		6308-ZZ	
215T							19.500				2.165		10.630							9.055				

NEMA Frames	"C" Flange Dimensions							
	AJ	AK	BD	BF		BB	BC	AH
				Number	Tap Size			
W182/4T	7.250	8.500	8.860	4	UNC0.5"x13	0.250	0.250	3.120
184T								
W213/5T								
215T								



W01 Jet Pump Motors - Three Phase
TEFC

Standard Features

- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V & 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- V’Ring sealing/slinger
- Ball bearings
- Stainless steel shadt end
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- Keyed or Threaded shaft
- Rotation:
  - Non-reversible
- NEMA design “A”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint Plan: 207N
- Color: Munsell N1 - Flat Black

Class I, Div 2, Groups A,B,C & D
Class I, Zone 2, IIC

Inverter Ratings for Safe Area				
Frames	Poles	Constant Torque	Variable Torque	VFD
W56J - 56J - 56HJ < 1HP	All	10:1	1000:1	Any
W56J - 56J - 56HJ ≥ 1HP	All	5:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Oil Seal, Lip Seal
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- Special paint
- With feet

W01 Jet Pump Motors - Three Phase

TEFC - Purchasing Data

Three Phase - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56J	$254	JT.33X02W01	.66	0.53	13.5	10.425
	1800	W56J	$271	JT.33X04W01	.66	0.53	15.2	10.819
0.5	3600	W56J	$299	JT.50X02W01	.86	0.69	14.3	10.819
	1800	W56J	$319	JT.50X04W01	.90	0.72	17.0	11.213
0.75	3600	W56J	$364	JT.75X02W01	1.16	0.93	15.2	10.819
	1800	W56J	$381	JT.75X04W01	1.22	0.98	18.7	11.606

Three Phase - Keyed Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56C	$254	KT.33X02W01	.66	0.53	13.5	9.925
	1800	W56C	$271	KT.33X04W01	.66	0.53	15.2	10.319
0.5	3600	W56C	$299	KT.50X02W01	.86	0.69	14.3	10.319
	1800	W56C	$319	KT.50X04W01	.90	0.72	17.0	10.713
0.75	3600	W56C	$364	KT.75X02W01	1.16	0.93	15.2	10.319
	1800	W56C	$381	KT.75X04W01	1.22	0.98	18.7	11.106

Three Phase - Threaded Shaft - Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56J	$274	JT.33X02W01D0E	0.58	0.46	15.0	10.319
	1800	W56J	$296	JT.33X04W01D0E	0.63	0.50	16.5	11.213
0.5	3600	W56J	$321	JT.50X02W01D0E	0.79	0.63	17.4	11.213
	1800	W56J	$389	JT.50X04W01D0E	0.78	0.63	20.9	12.000
0.75	3600	W56J	$390	JT.75X02W01D0E	1.12	0.90	18.3	11.123
	1800	56J	$423	JT.75X04W01D0E	1.19	0.96	30.2	12.835
1	3600	W56J	$460	JT000X02W01D0E	1.5	1.20	20.5	11.606
	1800	56J	$506	JT000X04W01D0E	1.47	1.18	37.9	14.016
1.5	3600	56J	$498	JT001X02W01D0E	1.87	1.50	34.2	13.622
	1800	56HJ	$584	JT001X04W01D0E	2.02	1.62	37.9	14.016
2	3600	56HJ	$584	JT002X02W01D0E	2.47	1.98	40.1	14.409
	1800	56HJ	$736	JT002X04W01D0E	2.72	2.18	42.3	14.409
3	3600	56HJ	$769	JT003X02W01D0E	3.51	2.81	48.1	15.591

Three Phase - Keyed Shaft - Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56C	$274	KT.33X02W01D0E	0.58	0.46	15.0	10.319
	1800	W56C	$296	KT.33X04W01D0E	0.63	0.50	16.5	10.713
0.5	3600	W56C	$321	KT.50X02W01D0E	0.79	0.63	17.4	10.713
	1800	W56C	$389	KT.50X04W01D0E	0.78	0.63	20.9	11.500
0.75	3600	W56C	$390	KT.75X02W01D0E	1.12	0.90	18.3	10.713
	1800	56C	$423	KT.75X04W01D0E	1.19	0.96	30.2	12.323
1	3600	W56C	$460	KT000X02W01D0E	1.5	1.20	20.5	11.106
	1800	56C	$506	KT000X04W01D0E	1.47	1.18	37.9	13.508
1.5	3600	56C	$498	KT001X02W01D0E	1.87	1.50	34.2	13.114
	1800	56HC	$584	KT001X04W01D0E	2.02	1.62	37.9	13.504
2	3600	56HC	$584	KT002X02W01D0E	2.47	1.98	40.1	13.898
	1800	56HC	$736	KT002X04W01D0E	2.72	2.18	42.3	13.898
3	3600	56HC	$769	KT003X02W01D0E	3.51	2.81	48.1	15.079

W01 Jet Pump Motors - Three Phase

TEFC - Electrical Data

Three Phase - Keyed or Threaded Shaft - Standard Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.33	0.25	3425	W56J or W56C	1.32	0.66	0.53	6.1	290%	300%	28	13.5	1.15	52.5	59.5	62.0	0.60	0.70	0.77
		1730	W56J or W56C	1.32	0.66	0.53	5.4	230%	270%	21	15.2	1.15	57.5	64.0	68.0	0.48	0.60	0.70
0.5	0.37	3400	W56J or W56C	1.72	0.86	0.69	6.3	290%	290%	20	14.3	1.15	59.5	66.0	68.0	0.61	0.73	0.80
		1730	W56J or W56C	1.80	0.90	0.72	6.0	260%	280%	16	17.0	1.15	62.0	70.0	72.0	0.49	0.62	0.72
0.75	0.55	3400	W56J or W56C	2.32	1.16	0.93	6.9	300%	300%	14	15.2	1.15	66.0	70.0	72.0	0.64	0.76	0.83
		1730	W56J or W56C	2.44	1.22	0.98	6.5	270%	290%	12	18.7	1.15	68.0	74.0	75.5	0.52	0.65	0.75

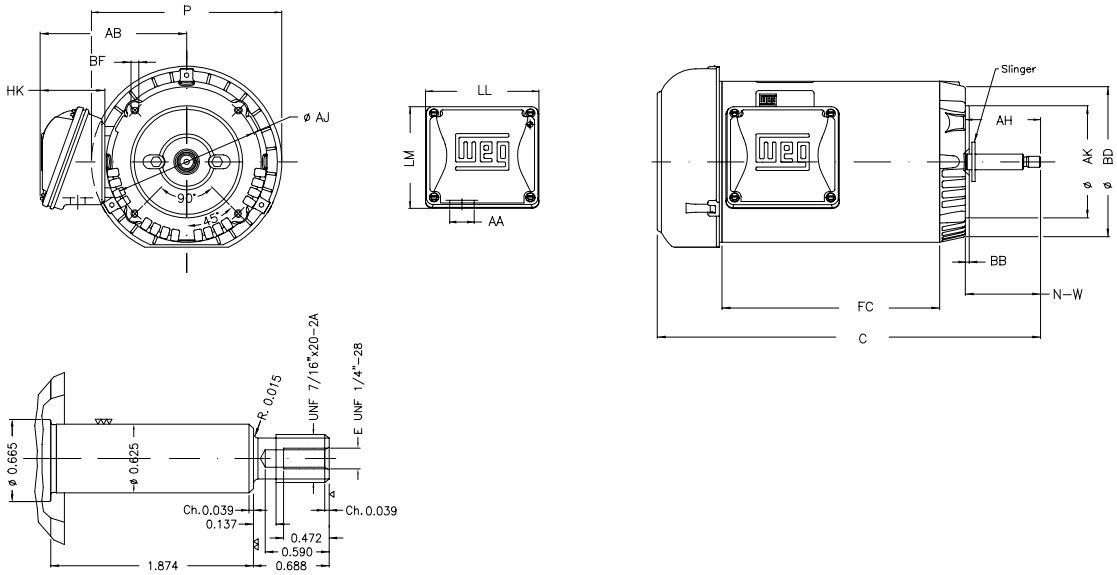
Three Phase - Keyed or Threaded Shaft - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.33	0.25	3450	W56J or W56C	1.16	0.58	0.46	7.1	320%	370%	28	15.0	1.15	59.5	66.0	72.0	0.61	0.71	0.76
		1740	W56J or W56C	1.26	0.63	0.50	6.2	260%	350%	22	16.5	1.15	66.0	72.0	74.0	0.46	0.58	0.68
0.5	0.37	3435	W56J or W56C	1.58	0.79	0.63	7.7	330%	360%	18	17.4	1.15	68.0	72.0	74.0	0.64	0.75	0.80
		1730	W56J or W56C	1.56	0.78	0.62	6.4	230%	310%	20	20.9	1.15	74.0	77.0	78.5	0.54	0.67	0.76
0.75	0.55	3440	W56J or W56C	2.24	1.12	0.90	8.1	350%	360%	16	18.3	1.15	70.0	75.5	77.0	0.62	0.74	0.80
		1760	56J or 56C	2.38	1.19	0.95	7.7	240%	360%	16	30.2	1.15	75.5	80.0	81.5	0.49	0.62	0.71
1.00	0.75	3435	W56J or W56C	3.00	1.50	1.20	8.8	360%	380%	10	20.5	1.15	74.0	77.0	78.5	0.63	0.75	0.80
		1765	56J or 56C	2.94	1.47	1.18	8.6	280%	300%	19	37.9	1.15	82.5	84.0	85.5	0.52	0.66	0.75
1.50	1.10	3520	56J or 56C	3.74	1.87	1.50	9.1	230%	300%	17	34.2	1.15	80.0	82.5	84.0	0.71	0.82	0.88
		1750	56HJ or 56HC	4.04	2.02	1.62	8.2	270%	300%	21	37.9	1.15	85.5	86.5	86.5	0.59	0.72	0.79
2.00	1.50	3520	56HJ or 56HC	4.94	2.47	1.98	9.9	250%	300%	13	40.1	1.15	82.5	85.5	85.5	0.73	0.83	0.89
		1745	56HJ or 56HC	5.44	2.72	2.18	8.2	270%	300%	15	42.3	1.15	85.5	87.5	86.5	0.60	0.73	0.80
3.00	2.20	3500	56HJ or 56HC	7.02	3.51	2.81	9.5	300%	380%	10	48.1	1.15	84.0	86.5	86.5	0.78	0.87	0.91

W01 Jet Pump Motors - Three Phase

TEFC - Mechanical Data

Form J - Threaded Shaft



NEMA Frames	AA	AB	HK	LL	LM	P	Flange					Bearings	
							AJ	AK	BB	BD	BF	D E	N D E
W56J	0.881"	5.520	2.650	3.835	3.697	6.693	5.874	4.500	0.157	6.468	UNC 3/8"x16	6203 ZZ	6202 ZZ
56J		5.873	2.629	4.563	4.090	7.638				6.450			
56HJ		5.873	2.629	4.563	4.090	7.638				6.450			

Three Phase - Threaded Shaft - Standard Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56J	10.425	5.118
	1800	W56J	10.819	5.512
0.5	3600	W56J	10.819	5.512
	1800	W56J	11.213	5.906
0.75	3600	W56J	10.819	5.512
	1800	W56J	11.606	6.300

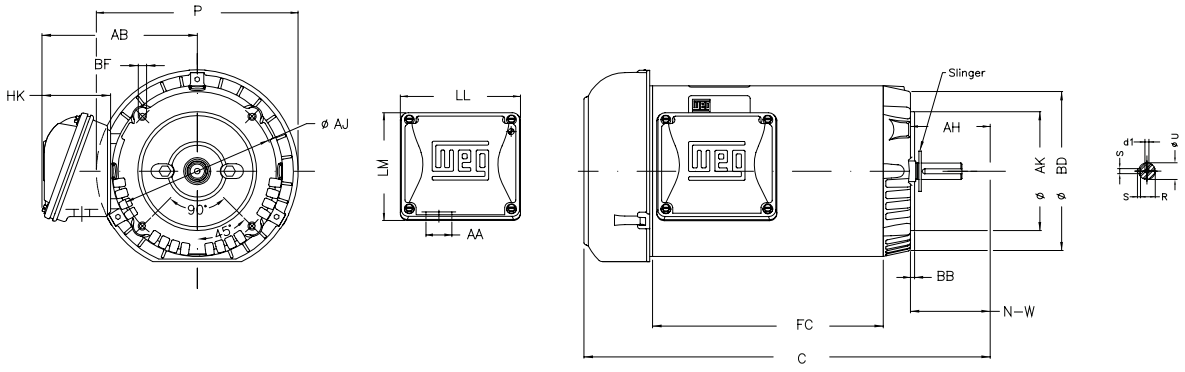
Three Phase - Threaded Shaft - Premium Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56J	10.319	5.512
	1800	W56J	11.213	5.906
0.5	3600	W56J	11.213	5.906
	1800	W56J	12.000	6.693
0.75	3600	W56J	11.123	5.906
	1800	56J	12.835	6.693
1	3600	W56J	11.606	6.300
	1800	56J	14.016	7.874
1.5	3600	56J	13.622	7.480
	1800	56HJ	14.016	7.874
2	3600	56HJ	14.409	8.268
	1800	56HJ	14.409	8.268
3	3600	56HJ	15.591	9.448

W01 Jet Pump Motors - Three Phase

TEFC - Mechanical Data

Form C - Keyed Shaft



NEMA Frames	AA	AB	HK	LL	LM	P	Flange					Shaft end							Bearings	
							AJ	AK	BB	BD	BF	AH	d1	ES	N-W	R	S	U	D E	N D E
W56C	0.881"	5.520	2.650	3.835	3.697	6.693	5.874	4.500	0.157	6.468	UNC 3/8"x16	2.062	A 3.15	1.417	1.874	0.517	0.187	0.625	6203 ZZ	6202 ZZ
56C		5.873	2.629	4.563	4.090	7.638				6.450										
56HC		5.873	2.629	4.563	4.090	7.638				6.450										

Three Phase - Threaded Shaft - Standard Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56C	9.925	5.118
	1800	W56C	10.319	5.512
0.5	3600	W56C	10.319	5.512
	1800	W56C	10.713	5.906
0.75	3600	W56C	10.319	5.512
	1800	W56C	11.106	6.300

Three Phase - Threaded Shaft - Premium Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56C	10.319	5.512
	1800	W56C	10.713	5.906
0.5	3600	W56C	10.713	5.906
	1800	W56C	11.500	6.693
0.75	3600	W56C	10.713	5.906
	1800	56C	12.323	6.693
1	3600	W56C	11.106	6.300
	1800	56C	13.508	7.874
1.5	3600	56C	13.114	7.480
	1800	56HC	13.504	7.874
2	3600	56HC	13.898	8.268
	1800	56HC	13.898	8.268
3	3600	56HC	15.079	9.448

W01 Jet Pump Motors - Three Phase
ODP

Standard Features

- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V & 575V
- Open Drip Proof - ODP (IP21)
- Die cast aluminum squirrel cage rotor
- shaft slinger
- ZZ bearings
- Stainless steel shaft end
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- Keyed or Threaded shaft
- Rotation:
  - Non-reversible
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint plan: 207N
- Color: Munsell N1 - Flat Black

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
W56J - 56J < 1HP	All	4:1	1000:1	Any
W56J - 56J ≥ 1HP	All	2:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- Special paint
- With feet

W01 Jet Pump Motors - Three Phase

ODP - Purchasing Data

Three Phase - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56J	$220	J0.33X02W01	0.68	0.55	13.0	9.972
0.5	3600	W56J	$260	J0.50X02W01	0.97	0.77	13.9	10.555
0.75	3600	W56J	$315	J0.75X02W01	1.35	1.08	15.0	10.555

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Three Phase - Keyed Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56C	$220	K0.33X02W01	0.68	0.55	13.0	9.472
0.5	3600	W56C	$260	K0.50X02W01	0.97	0.77	13.9	9.866
0.75	3600	W56C	$315	K0.75X02W01	1.35	1.08	15.0	9.866

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Three Phase - Threaded Shaft - Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56J	$231	J0.33X02W01D0E	0.62	0.50	13.0	9.972
0.5	3600	W56J	$273	J0.50X02W01D0E	0.88	0.71	13.9	10.555
0.75	3600	W56J	$331	J0.75X02W01D0E	1.18	0.95	16.1	10.949
1	3600	W56J	$385	J0000X02W01D0E	1.63	1.30	18.3	11.343
1.5	3600	W56J	$422	J0001X02W01D0E	2.11	1.69	23.8	11.941
2	3600	56J	$493	J0002X02W01D0E	2.42	1.94	36.8	13.189
3	3600	56J	$650	J0003X02W01D0E	3.59	2.87	43.7	13.583

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Three Phase - Keyed Shaft - Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V		
0.33	3600	W56C	$231	K0.33X02W01D0E	0.62	0.50	13.0	9.472
0.5	3600	W56C	$286	K0.50X02W01D0E	0.88	0.71	13.9	9.866
0.75	3600	W56C	$331	K0.75X02W01D0E	1.18	0.95	16.1	10.260
1	3600	W56C	$385	K0000X02W01D0E	1.63	1.30	18.3	10.654
1.5	3600	W56C	$422	K0001X02W01D0E	2.11	1.69	23.8	11.441
2	3600	56C	$493	K0002X02W01D0E	2.42	1.94	36.8	12.677
3	3600	56C	$650	K0003X02W01D0E	3.59	2.87	43.7	13.071

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W01 Jet Pump Motors - Three Phase

ODP - Electrical Data

Three Phase - Keyed or Threaded Shaft - Standard Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.33	0.25	3470	W56J or W56C	1.36	0.68	0.55	6.8	330%	400%	34	13.0	1.75	57.0	63.0	67.0	0.49	0.60	0.69
0.5	0.37	3470	W56J or W56C	1.94	0.97	0.77	6.7	330%	360%	19	13.9	1.60	62.0	68.0	70.0	0.47	0.60	0.69
0.75	0.55	3455	W56J or W56C	2.70	1.35	1.08	6.7	330%	350%	14	15.0	1.50	64.0	70.0	72.0	0.48	0.61	0.71

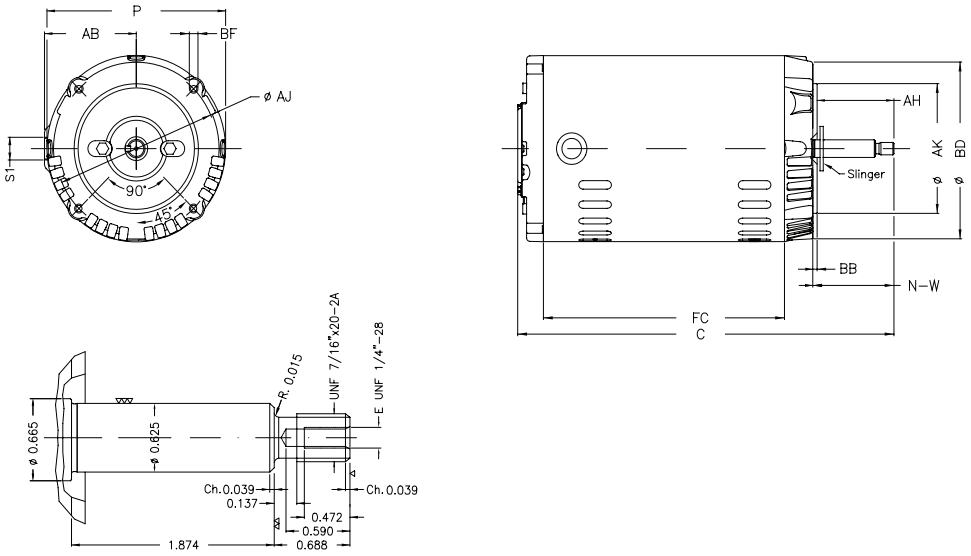
Three Phase - Keyed or Threaded Shaft - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.33	0.25	3450	W56J or W56C	1.24	0.62	0.50	7.0	330%	380%	35	13.0	1.75	57.5	64.0	69.5	0.56	0.67	0.73
0.5	0.37	3450	W56J or W56C	1.76	0.88	0.71	7.3	370%	400%	24	13.9	1.60	62.0	68.0	73.4	0.53	0.65	0.72
0.75	0.55	3450	W56J or W56C	2.36	1.18	0.95	7.8	370%	400%	18	16.1	1.50	68.0	72.0	76.8	0.57	0.69	0.76
1.00	0.75	3450	W56J or W56C	3.26	1.63	1.30	8.3	400%	410%	13	18.3	1.40	70.0	75.5	77.0	0.55	0.68	0.75
1.50	1.10	3450	W56J or W56C	4.22	2.11	1.69	8.8	400%	430%	13	23.8	1.30	78.5	82.5	84.0	0.59	0.72	0.78
2.00	1.50	3485	56J or 56C	4.84	2.42	1.94	8.5	260%	300%	14	36.8	1.20	82.5	84.0	85.5	0.76	0.85	0.88
3.00	2.20	3480	56J or 56C	7.18	3.59	2.87	8.5	260%	300%	9	43.7	1.15	84.0	85.5	85.5	0.76	0.86	0.90

W01 Jet Pump Motors - Three Phase

ODP - Mechanical Data

Form J - Threaded Shaft



NEMA Frames	P	Flange					Bearings	
		AJ	AK	BB	BD	BF	D E	N D E
56J	5.709	5.874	4.500	0.157	6.468	UNC 3/8"x16	6203 ZZ	6202 ZZ
56HJ	6.456				6.450			

Three Phase - Threaded Shaft - Standard Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56J	9.972	5.906
0.5	3600	W56J	10.555	6.300
0.75	3600	W56J	10.555	6.300

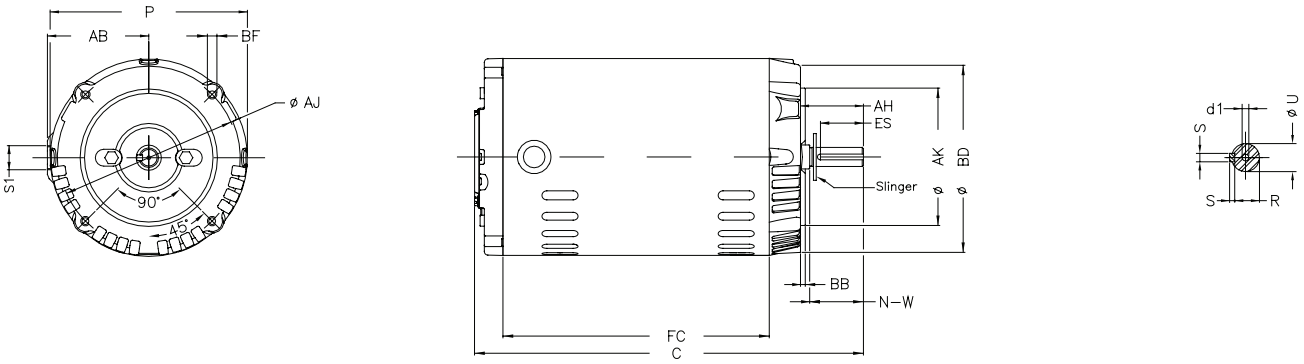
Three Phase - Threaded Shaft - Premium Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56J	9.972	5.906
0.5	3600	W56J	10.555	6.300
0.75	3600	W56J	10.949	6.693
1	3600	W56J	11.343	7.087
1.5	3600	W56J	11.941	7.874
2	3600	56J	13.189	8.661
3	3600	56J	13.583	9.055

W01 Jet Pump Motors - Three Phase

ODP - Mechanical Data

Form C - Keyed Shaft



NEMA Frames	P	Flange					Shaft end							Bearings	
		AJ	AK	BB	BD	BF	AH	d1	ES	N-W	R	S	U	D E	N D E
W56C	5.709	5.874	4.500	0.157	6.468	UNC 3/8"x16	2.062	A 3.15	1.417	1.874	0.517	0.187	0.625	6203 ZZ	6202 ZZ
56C	6.456				6.450										

Three Phase - Threaded Shaft - Standard Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56C	9.472	5.906
0.5	3600	W56C	9.866	6.300
0.75	3600	W56C	9.866	6.300

Three Phase - Threaded Shaft - Premium Efficiency

HP	RPM	NEMA Frame	Overall Length "C" Dim. (in.)	"FC" Dim (in.)
0.33	3600	W56C	9.472	5.906
0.5	3600	W56C	9.866	6.300
0.75	3600	W56C	10.260	6.693
1	3600	W56C	10.654	7.087
1.5	3600	W56C	11.441	7.874
2	3600	56C	12.677	8.661
3	3600	56C	13.071	9.055

W01 Jet Pump Motors - Single Phase
TEFC

Standard Features

- Single phase, 2 & 4 pole, 60Hz
- Voltage:
  - Single Phase - 115/208-230V 3hp 230V only
- Start capacitor
- Die cast aluminum squirrel cage rotor
- Totally Enclosed Fan Cooled (IP55)
- Insulation class “F” (Δt 80°C)
- Continuous duty (S1), 40ºC ambient
- Automatic thermal overload protection
- Keyed or Threaded shaft
- Rotation:
  - Non-reversible
- Stainless steel shaft end
- WEG paint plan: 207N
- Color: Munsell N1 - Flat Black

Optional Features

- Special voltages
- Manual thermal overload protection
- Other mounting configurations
- With feet

Jet Pump Motors

TEFC - Purchasing Data

Single Phase - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56J	$267	JT.33102W01	5.20	2.60	19.1	11.606
	1800	W56J	$278	JT.33104W01	6.00	3.00	18.3	12.000
0.5	3600	W56J	$285	JT.50102W01	7.0	3.5	20.2	12.000
	1800	W56J	$293	JT.50104W01	8.0	4.0	20.3	12.394
0.75	3600	56J	$347	JT.75102W01	8.0	4.0	24.7	14.402
	1800	56J	$355	JT.75104W01	10.6	5.3	27.0	14.795
1	3600	56J	$409	JT000102W01	10.2	5.10	27.9	14.795
	1800	56J	$479	JT000104W01	13.6	6.8	32.8	15.189
1.5	3600	56J	$444	JT001102W01	13.2	6.6	32.6	15.583
	1800	56HJ	$525	JT001104W01	14.96	7.48	43.0	16.370
2	3600	56HJ	$535	JT002102W01	17.4	8.70	36.9	15.583
	1800	56HJ	$602	JT002104W01	20.0	10.0	46.3	17.157
3	3600	56HJ	$670	JT003102W01	---	13.2	42.6	16.764

Single Phase - Keyed Shaft - Standard Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56C	$267	KT.33102W01	5.20	2.60	19.1	11.106
	1800	W56C	$278	KT.33104W01	6.00	3.00	18.3	11.500
0.5	3600	W56C	$285	KT.50102W01	7.0	3.5	20.2	11.500
	1800	W56C	$293	KT.50104W01	8.0	4.0	20.3	11.894
0.75	3600	56C	$347	KT.75102W01	8.0	4.0	24.7	12.720
	1800	56C	$355	KT.75104W01	10.6	5.3	27.0	13.114
1	3600	56C	$409	KT000102W01	10.2	5.10	28.0	13.144
	1800	56C	$479	KT000104W01	13.6	6.8	32.8	13.901
1.5	3600	56C	$444	KT001102W01	13.2	6.6	32.6	14.296
	1800	56HC	$525	KT001104W01	14.96	7.48	43.0	15.083
2	3600	56HC	$535	KT002102W01	17.4	8.70	36.9	14.296
	1800	56HC	$602	KT002104W01	20.0	10.0	46.3	15.870
3	3600	56HC	$670	KT003102W01	---	12.7	47.1	15.477

Jet Pump Motors

TEFC - Electrical Data

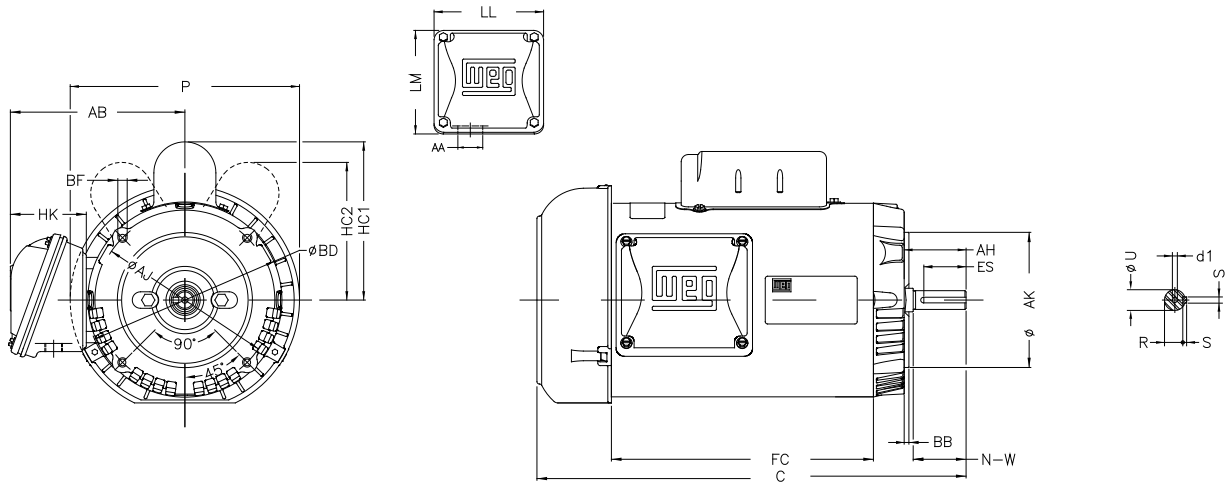
Single Phase - Keyed or Threaded Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
0.33	0.25	3490	W56J	5.20	2.60	7.00	290%	290%	19.1	1.15	42.0	50.0	54.0	0.61	0.69	0.76
		1735	W56J	6.00	3.00	5.60	320%	280%	18.3	1.15	46.0	55.0	61.0	0.42	0.51	0.59
0.5	0.37	3500	W56J	7.00	3.50	8.00	290%	300%	20.2	1.15	50.0	58.0	60.0	0.59	0.69	0.76
		1730	W56J	8.00	4.00	5.70	320%	270%	20.3	1.15	52.0	29.0	64.0	0.44	0.54	0.63
0.75	0.55	3500	56J	8.00	4.00	8.00	280%	290%	24.7	1.15	52.0	62.0	66.0	0.81	0.87	0.91
		1745	56J	10.6	5.30	6.40	280%	270%	27.0	1.15	57.0	65.0	68.5	0.47	0.58	0.67
1	0.75	3500	56J	10.1	5.06	8.40	280%	280%	27.9	1.15	55.0	64.0	70.0	0.82	0.88	0.92
		1745	56J	13.6	6.80	6.70	280%	270%	32.8	1.15	62.0	68.0	71.0	0.48	0.60	0.68
1.5	1.1	3500	56J	13.2	6.60	8.00	240%	250%	32.6	1.15	66.0	73.0	75.0	0.92	0.95	0.97
		1745	56HJ	15.8	7.88	8.00	250%	270%	43.0	1.15	69.0	75.0	77.0	0.68	0.78	0.83
2	1.5	3495	56HJ	17.5	8.73	7.80	220%	250%	36.9	1.15	70.0	75.0	77.0	0.94	0.97	0.97
		1745	56HJ	20.0	10.00	8.00	240%	260%	46.3	1.15	70.0	76.0	78.5	0.66	0.76	0.82
3	2.2	3490	56HJ	26.4	13.20	8.00	210%	250%	42.6	1.15	72.0	77.0	80.0	0.87	0.92	0.94

Jet Pump Motors

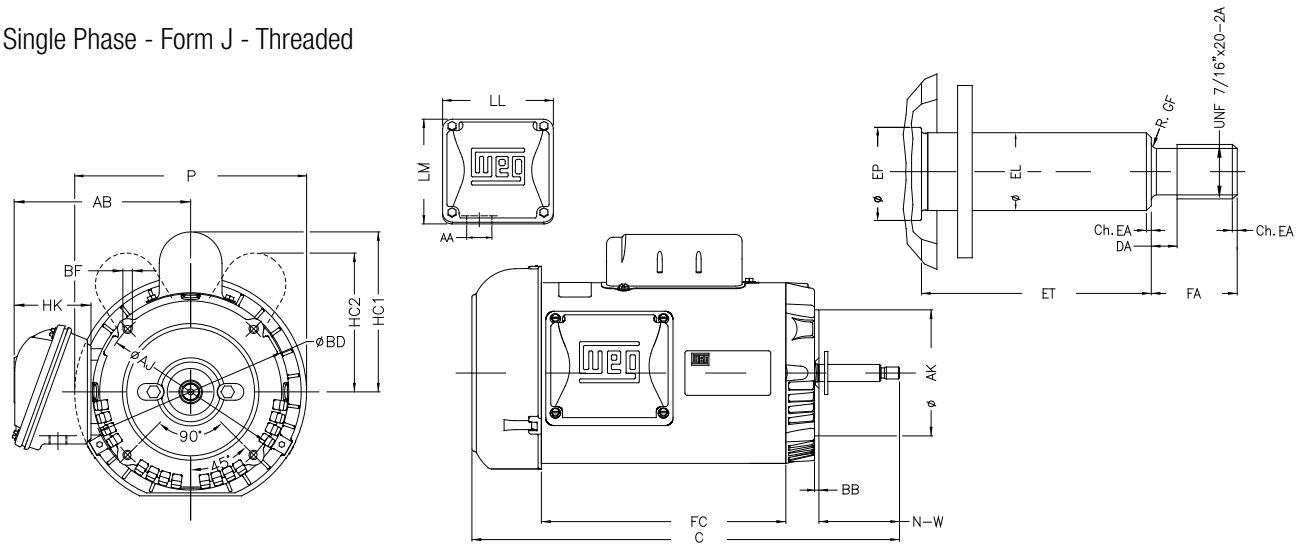
TEFC - Mechanical Data

Single Phase - Form C - Keyed



NEMA Frames	P	Keyway			Shaft Extension		AA	Bearings		"C" Flange Dimensions						
		S	R	ES	N-W	U		D.E.	N.D.E.	Flange	AJ	AK	BD	BF		AH
														Number	Tap Size	
W56C	6.693	0.187	0.517	1.417	1.874	0.625	0.881"	6203-2RS	6202-ZZ	FC-149	5.874	4.500	6.468	4	UNC 3/8'x16	2.062
56C	7.638												6.450			
56HC	7.638												6.450			

Single Phase - Form J - Threaded



NEMA Frames	P	AA	Bearings		"C" Flange Dimensions						
			D.E.	N.D.E.	Flange	AJ	AK	BD	BF		AH
									Number	Tap Size	
W56J	6.693	0.881"	6203-ZZ	6202-ZZ	FC-149	5.874	4.500	6.468	4	UNC 3/8'x16	2.562
56J	7.638							6.450			
56HJ	7.638							6.450			

W01 Jet Pump Motors - Single Phase
ODP

Standard Features

- Single phase, 2 pole, 60Hz
- Voltage:
  - Single Phase - 115/208-230V
- Start capacitor
- Die cast aluminum squirrel cage rotor
- Insulation class “F” (Δt 80°C)
- Continuous duty (S1), 40ºC ambient
- Automatic thermal overload protection
- Keyed or Threaded shaft
- Rotation:
  - Non-reversible
- Stainless steel shaft end
- WEG paint plan: 207N
- Color: Mussel N1 - Flat Black

Optional Features

- Special voltages
- Manual thermal overload protection
- Other mounting configurations
- Drip Cover
- With feet

W01 Jet Pump Motors

ODP - Purchasing Data

Single Phase - Threaded Shaft - Standard Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56J	$226	J0.33102W01	5.0	2.5	16.6	10.366
0.5	3600	W56J	$264	J0.50102W01	6.6	3.3	19.2	10.760
0.75	3600	W56J	$290	J0.75102W01	9.6	4.8	21.6	11.154
1	3600	56J	$344	J0000102W01	12.8	6.4	25.9	11.496
1.5	3600	56J	$375	J0001102W01	17.3	8.63	30.4	11.890
2	3600	56HJ	$473	J0002102W01	21.8	10.9	37.7	12.678
3*	3600	56HJ	$597	J0003102W01	---	13.2	42.5	13.465

Note: * Only available in 230V

Single Phase - Threaded Shaft - Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56J	$238	J0.33102W01DOE	3.2	1.60	19.4	9.866
0.5	3600	W56J	$277	J0.50102W01DOE	4.8	2.40	19.4	10.260
0.75	3600	56J	$305	J0.75102W01DOE	6.8	3.40	25.4	10.654
1	3600	56J	$362	J0000102W01DOE	8.6	4.30	29.8	11.496
1.5	3600	56J	$394	J0001102W01DOE	12.4	6.20	32.0	11.890
2	3600	56J	$497	J0002102W01DOE	16.8	8.40	36.4	12.678
3*	3600	56HJ	$627	J0003102W01DOE	24.4	12.20	42.3	13.465

Note: * Only available in 230V

Single Phase - Keyed Shaft - Standard Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56C	$226	K0.33102W01	5.0	2.5	16.6	9.866
0.5	3600	W56C	$264	K0.50102W01	6.6	3.3	19.2	10.260
0.75	3600	W56C	$290	K0.75102W01	9.6	4.8	21.6	10.654
1	3600	56C	$344	K0000102W01	12.8	6.4	25.9	11.496
1.5	3600	56C	$375	K0001102W01	17.3	8.63	30.4	11.890
2	3600	56HC	$473	K0002102W01	21.8	10.9	37.7	12.678
3*	3600	56HC	$597	K0003102W01	---	13.2	42.5	13.465

Note: * Only available in 230V

Single Phase - Keyed Shaft - Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56J	$238	K0.33102W01DOE	3.2	1.6	19.4	10.260
0.5	3600	W56J	$277	K0.50102W01DOE	4.8	2.4	19.4	10.260
0.75	3600	W56J	$305	K0.75102W01DOE	6.8	3.4	25.4	11.102
1	3600	56J	$362	K0000102W01DOE	8.6	4.3	29.8	11.890
1.5	3600	56J	$394	K0001102W01DOE	12.4	6.2	32.0	12.283
2	3600	56J	$497	K0002102W01DOE	16.8	8.4	36.4	12.677
3*	3600	56J	$627	K0003102W01DOE	24.4	12.2	42.3	13.858

Note: * Only available in 230V

W01 Jet Pump Motors

ODP - Electrical Data

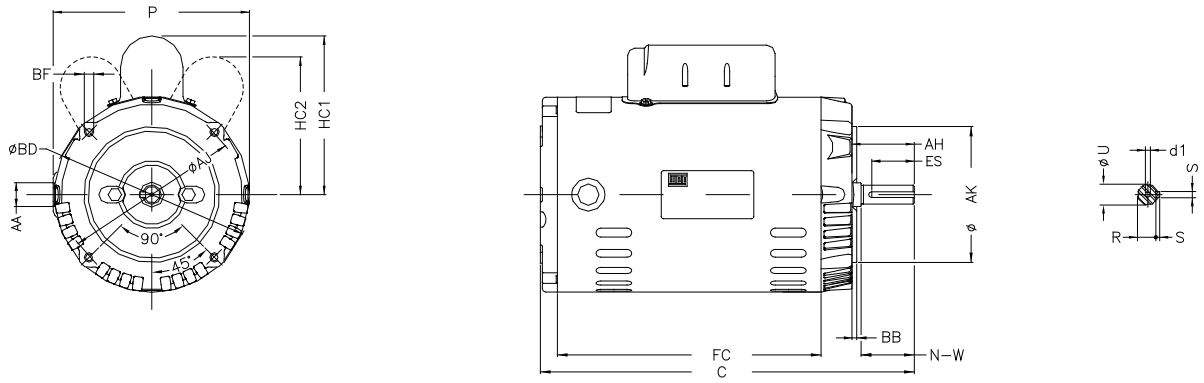
Single Phase - Keyed or Threaded Shaft - Standard Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
0.33	0.25	3500	W56J	5.00	2.5	7.40	300%	300%	16.6	1.75	49.0	56.0	59.0	0.57	0.66	0.74
0.5	0.37	3500	W56J	6.60	3.3	8.20	280%	300%	19.2	1.60	54.0	61.0	65.0	0.55	0.66	0.74
0.75	0.55	3500	W56J	9.6	4.8	8.00	260%	300%	21.6	1.50	56.0	63.0	67.0	0.54	0.66	0.74
1	0.75	3500	56J	12.8	6.4	6.90	260%	280%	25.9	1.40	60.0	65.0	68.0	0.55	0.67	0.75
1.5	1.1	3500	56J	17.3	8.6	7.3	250%	270%	30.4	1.30	65.0	70.0	72.0	0.57	0.69	0.77
2	1.5	3490	56J	21.8	10.9	7.8	250%	260%	37.7	1.20	69.0	72.0	75.0	0.60	0.72	0.80
3	2.2	3485	56J	---	13.2	8.0	200%	250%	42.5	1.15	71.0	76.0	78.0	0.85	0.91	0.93

W01 Jet Pump Motors

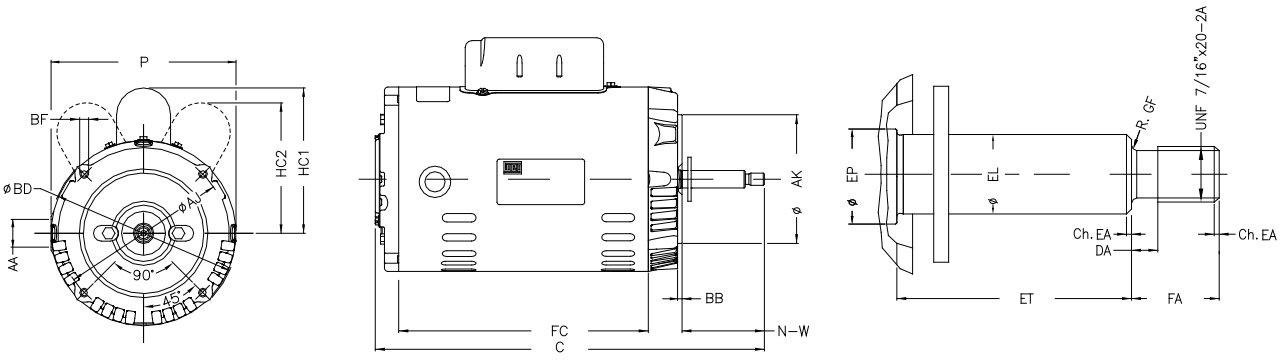
ODP - Mechanical Data

Single Phase - Form C - Keyed



NEMA Frames	P	Keyway			Shaft Extension		Bearings		"C" Flange Dimensions						
		S	R	ES	N-W	U	D.E.	N.D.E.	Flange	AJ	AK	BD	BF		AH
													Number	Tap Size	
W56C	5.709	0.187	0.517	1.417	1.874	0.625	6203-ZZ	6202-ZZ	FC-149	5.874	4.500	6.468	4	UNC 3/8'x16	2.062
56J	6.456											6.450			

Single Phase - Form J - Threaded



NEMA Frames	P	Bearings		"C" Flange Dimensions						
		D.E.	N.D.E.	Flange	AJ	AK	BD	BF		AH
								Number	Tap Size	
W56J	5.709	6203-2RS	6202-2RS	FC-149	5.874	4.500	6.468	4	UNC 3/8'x16	2.562
56J	6.456		6203-2RS				6.450			

W22 JM & JP Pump Motors - Single Phase
TEFC

Standard Features

- Single phase, 2 and 4 pole, 60Hz
- Voltage: 115/208-230V or 208-230/460V
- Cast Iron Frame
- Die cast aluminum squirrel cage rotor
- Totally enclosed fan cooled (IP55)
- Ball bearings - ZZ
- Class 'F' insulation
- Service Factor: 1.15
- Continuous Duty (S1)
- 40°C ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mount
- Stainless steel nameplate
- Paint: enamel alkyd resin base
- Color: RAL 5009
- WEG paint plan: 207A
- Rubber drain plugs

Optional Features

- Special voltages
- Second shaft end
- Drip cover (canopy) for shaft down applications
- Stainless steel shaft
- 6 pole motors available on request

W22 JM & JP Pump Motors - Single Phase

TEFC - Purchasing & Electrical Data

Single Phase - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current			Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V	460V		
1	3600	143/5JM	$839	JM000102W22	9.6	4.8	---	51	16.811
	1800	143/5JM	$845	JM000104W22	10.7	5.33	---	51	16.811
	1200	143/5JM	$1,073	JM000106W22	11.2	5.6	---	110	16.811
1.5	3600	143/5JM	$958	JM001102W22	13.6	6.8	---	53	16.811
	1800	143/5JM	$977	JM001104W22	13.5	6.75	---	71	16.811
	1200	182/4JM	$1,872	JM001106W22	---	8.5	4.25	132	18.543
2	3600	143/5JM	$1,011	JM002102W22	18	9	---	56	16.811
	1800	143/5JM	$1,005	JM002104W22	18.3	9.13	---	71	16.811
	1200	182/4JM	$1,946	JM002106W22	---	10.0	5.0	132	18.543
3	3600	143/5JM	$1,097	JM003102W22	25	12.5	---	73	16.811
	1800	182/4JM	$1,348	JM003104W22	27.6	13.8	---	105	18.543
	1200	213/5JM	$2,165	JM003106W22	---	13.4	6.68	135	24.212
5	3600	182/4JM	$1,594	JM005102W22	---	19.0	9.5	108	18.543
	1800	182/4JM	$1,641	JM005104W22	---	21.4	10.7	118	18.543
	1200	213/5JM	$2,421	JM005106W22	---	20.7	10.4	169	24.212
7.5	3600	213/5JM	$2,415	JM007102W22	---	28.3	14.1	168	24.212
	3600	182/4JM	$2,165	JM007102W22184	---	28.2	14.1	115	18.543
	1800	213/5JM	$2,325	JM007104W22	---	30.5	15.2	180	24.212
10	3600	213/5JM	$2,525	JM010102W22	---	38.8	19.4	165	24.212
	1800	213/5JM	$2,468	JM010104W22	---	40.8	20.4	191	24.212

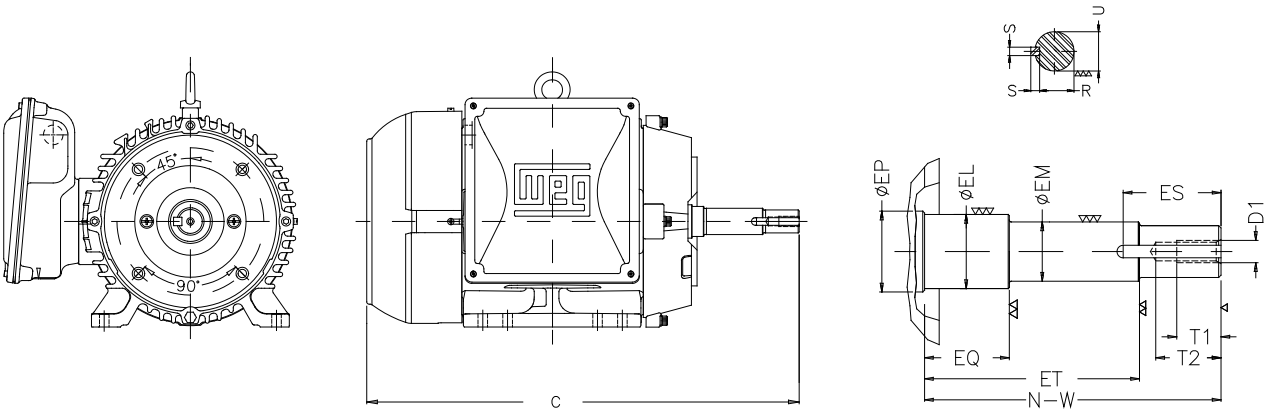
Flange: For JP Type Replace 'JM' with 'JP'

Three Phase - Keyed or Threaded Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor Current (Il/In)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V	460V						50%	75%	100%	50%	75%	100%
1	0.75	3540	143/5JM	9.6	4.8	---	8.5	230%	270%	51	1.15	58.0	67.0	70.0	0.95	0.96	0.97
		1665	143/5JM	10.7	5.33	---	8.4	270%	300%	51	1.15	59.0	68.0	72.0	0.69	0.79	0.85
		1170	143/5JM	11.2	5.6	---	6.3	200%	240%	110	1.15	59.6	68.2	70.0	0.70	0.78	0.83
1.5	1.1	3520	143/5JM	13.6	6.8	---	7.3	230%	240%	53	1.15	67.0	72.0	74.0	0.91	0.94	0.95
		1755	143/5JM	13.5	6.75	---	8.0	260%	230%	71	1.15	65.0	73.0	77.0	0.90	0.92	0.92
		1185	182/4JM	---	8.5	4.25	8.2	250%	320%	132	1.15	58.4	67.3	72.0	0.62	0.72	0.78
2	1.5	3530	143/5JM	18	9	---	8.0	240%	280%	56	1.15	66.0	74.0	77.0	0.87	0.92	0.94
		1745	143/5JM	18.3	9.13	---	7.4	270%	240%	71	1.15	68.5	75.5	78.5	0.81	0.87	0.91
		1180	182/4JM	---	10	5	8.0	240%	270%	132	1.15	65.2	73.0	77.0	0.72	0.81	0.85
3	2.2	3510	143/5JM	25	12.5	---	7.2	220%	240%	73	1.15	72.5	76.0	78.5	0.96	0.97	0.97
		1745	182/4JM	27.6	13.8	---	7.7	290%	270%	105	1.15	65.0	74.0	77.0	0.79	0.87	0.90
		1170	213/5JM	---	13.4	6.68	7.5	210%	210%	135	1.15	69.3	76.7	80.0	0.93	0.96	0.96
5	3.7	3515	182/4JM	---	19	9.5	7.1	280%	250%	108	1.15	80.0	84.0	85.5	0.96	0.99	0.99
		1730	182/4JM	---	21.4	10.7	6.5	300%	240%	118	1.15	72.5	78.5	80.0	0.89	0.93	0.94
		1175	213/5JM	---	20.7	10.4	8.4	220%	250%	169	1.15	78.9	83.9	82.5	0.91	0.94	0.94
7.5	5.5	3510	213/5JM	---	28.3	14.1	7.2	280%	290%	168	1.15	81.5	85.5	86.5	0.99	0.99	0.99
		3505	182/4JM	---	28.2	14.1	7.5	280%	260%	115	1.15	79.0	83.5	85.5	0.99	0.99	0.99
		1740	213/5JM	---	30.5	15.2	7.0	330%	250%	180	1.15	76.0	81.0	82.5	0.89	0.93	0.95
10	7.5	3515	213/5JM	---	38.8	19.4	7.0	230%	290%	165	1.15	82.0	85.5	86.5	0.96	0.97	0.97
		1740	213/5JM	---	40.8	20.4	6.7	260%	250%	191	1.15	78.0	82.0	82.5	0.90	0.95	0.97

W22 JM & JP Pump Motors - Single Phase

TEFC - Mechanical Data



NEMA Frames	Mounting				A	B	D	G	J	O	P	AB	AA	Bearings		NEMA "C" Flange					
	2E	2F	H	BA										D.E.	N.D.E.	AJ	AK	BB	BD	BF	
																				Qty.	Tap Size
143JM	5.500	4.000	0.340	2.250	6.457	6.142	3.500	0.354	1.457	7.122	7.244	7.126	NPT 0.75"	6205-ZZ	6203-ZZ	5.875	4.500	0.157	6.496	4	UNC 3/8"x16
145JM	7.500	4.500	0.410	2.750	8.661	6.969	4.500	0.394	1.614	8.897	8.937	8.110	NPT 1"	6207-ZZ	6206-ZZ						
182JM	8.500	5.500/7.000		3.500	9.764	8.858	5.250	0.669	1.791	10.840	10.787	9.244		6308-ZZ		7.250	8.500	0.250	8.858		UNC 0.5"x13

JM Type

NEMA FRAMES	LENGTHS			DIAMETERS				KEYWAY			THREADED HOLE			
	N-W	EQ	ET	U	EM	EL	EP	S	R	ES	d1	T1	T2	C
143/5JM	4.258	0.630	2.880	0.875	1.000	1.156	1.179	0.187	0.766	1.575	EUNC 3/8"x16	0.748	1.102	16.811
182/4JM				0.874		1.250	1.376		0.767					18.543
213/5JM							1.770		0.768					24.212

JP Type

NEMA FRAMES	LENGTHS			DIAMETERS				KEYWAY			THREADED HOLE			
	N-W	EQ	ET	U	EM	EL	EP	S	R	ES	d1 (UNC)	T1	T2	C
143/5JP	7.319	1.563	5.941	0.875	1.000	1.156	1.179	0.187	0.766	1.575	EUNC 3/8"x16	0.748	1.102	19.882
182/4JP				0.874		1.250	1.376		0.767					21.614
213/5JP	8.130	2.382	5.886	1.249	1.375	1.750	1.770	0.250	1.110	2.480	EUNC 1/2"x16	0.984	1.496	28.084

W01 JM & JP Rolled Steel - NEMA Premium
TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- V’Ring sealing
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207N - Frame 143/5JM
  - 207A - Frame 182/4JM & 213/5JM
  - 203A - Frame 254/6JM
- Color: Munsell N1 - Flat Black
- All frames have dual mounting

Class I, Div 2, Groups A,B,C & D
Class I, Zone 2, IIC

Inverter Ratings for Safe Area				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5JM or JP - 254/6JM or JP	2 Pole	10:1	1000:1	Any
	4 Pole	4:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Oil Seal, Lip Seal
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- Special paint
- Forced ventilation
- No feet

W01 JM & JP Rolled Steel - NEMA Premium

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"Overall Length ""C"" Dim. (in.) JM Type"	"Overall Length ""C"" Dim. (in.) JP Type"
HP	RPM					460V	575V				
1	3600	143/5 JM or JP	$460	$469	JM000X02NPW01	1.44	1.15	78.5	26.2	15.709	18.780
	1800	143/5 JM or JP	$451	$460	JM000X04NPW01	1.47	1.18	85.5	37.9	16.102	19.173
	1200	143/5 JM or JP	$539	$550	JM000X06NPW01	1.66	1.26	80.0	35.9	15.709	19.173
1.5	3600	143/5 JM or JP	$514	$524	JM001X02NPW01	1.87	1.50	84.0	34.2	15.709	18.780
	1800	143/5 JM or JP	$507	$517	JM001X04NPW01	2.02	1.62	86.5	37.9	16.102	19.173
	1200	182/4 JM or JP	$691	$704	JM001X06NPW01	2.27	1.78	85.5	71.0	18.622	20.906
2	3600	143/5 JM or JP	$562	$573	JM002X02NPW01	2.47	1.98	85.5	40.1	16.496	19.567
	1800	143/5 JM or JP	$525	$536	JM002X04NPW01	2.72	2.18	86.5	42.3	16.496	19.567
	1200	182/4 JM or JP	$768	$783	JM002X06NPW01	3.15	2.40	86.5	80.5	19.409	21.693
3	3600	143/5 JM or JP	$575	$587	JM003X02NPW01145JM	3.51	2.81	86.5	48.1	16.496	19.567
	3600	182/4 JM or JP	$636	$649	JM003X02NPW01	3.67	2.94	86.5	63.5	17.835	20.906
	1800	182/4 JM or JP	$632	$644	JM003X04NPW01	3.81	3.05	89.5	80.3	19.409	22.480
	1200	213/5 JM or JP	$1,039	$1,060	JM003X06NPW01	4.26	3.34	87.5	101	20.039	24.291
5	3600	182/4 JM or JP	$704	$718	JM005X02NPW01	5.90	4.72	88.5	78.5	19.409	22.480
	1800	182/4 JM or JP	$697	$711	JM005X04NPW01	6.49	5.19	89.5	71.4	19.409	22.480
	1200	213/5 JM or JP	$1,288	$1,314	JM005X06NPW01	7.08	5.39	87.5	122	20.433	25.079
7.5	3600	182/4 JM or JP	$917	$935	JM007X02NPW01184JM	8.57	6.86	89.5	79.4	18.622	21.693
	3600	213/5 JM or JP	$1,053	$1,074	JM007X02NPW01	8.67	6.94	89.5	133	21.220	25.079
	1800	213/5 JM or JP	$976	$995	JM007X04NPW01	9.07	7.26	91.7	120	20.039	23.898
	1200	254/6 JM or JP	$1,918	$1,956	JM007X06NPW01	10.4	7.98	89.5	179	24.055	26.929
10	3600	213/5 JM or JP	$1,189	$1,212	JM010X02NPW01	11.5	9.20	90.2	161	22.795	26.654
	1800	213/5 JM or JP	$1,177	$1,201	JM010X04NPW01	12.2	9.76	91.7	130	20.433	24.291
	1200	254/6 JM or JP	$2,092	$2,134	JM010X06NPW01	14.0	11.0	89.5	196	24.055	27.717
15	3600	213/5 JM or JP	$1,415	$1,443	JM015X02NPW01215JM	17.0	13.6	91.0	154	22.795	26.654
	3600	254/6 JM or JP	$1,700	$1,734	JM015X02NPW01	17.4	13.9	91.0	175	24.055	26.929
	1800	254/6 JM or JP	$1,669	$1,702	JM015X04NPW01	18.2	14.6	92.4	197	24.055	26.929
20	3600	254/6 JM or JP	$2,078	$2,120	JM020X02NPW01	22.7	18.2	91.0	211	24.843	27.717
	1800	254/6 JM or JP	$1,949	$1,988	JM020X04NPW01	24.7	19.8	93.0	227	24.843	27.717
25	3600	254/6 JM or JP	$2,452	$2,501	JM025X02NPW01	28.5	22.8	91.7	221	24.843	27.717

Type: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

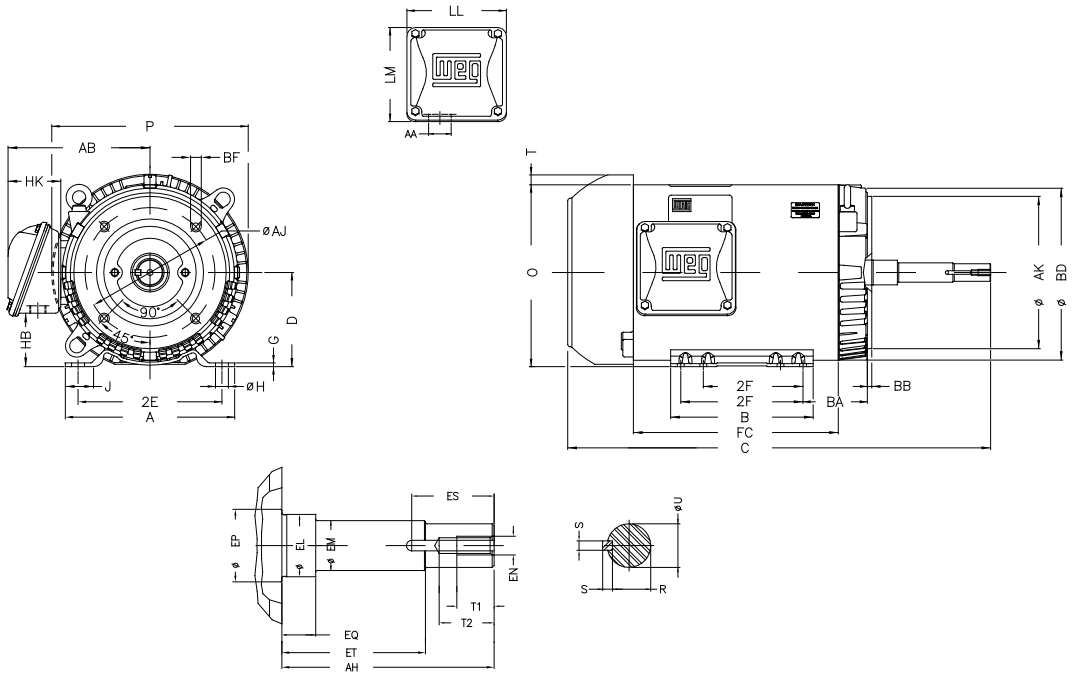
W01 JM & JP Rolled Steel - NEMA Premium

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
1	0.75	3510	143/5 JM	2.88	1.44	1.15	7.8	200%	300%	22	26.2	1.15	72.0	77.0	78.5	0.65	0.76	0.83
		1765	143/5 JM	2.94	1.47	1.18	8.6	280%	300%	19	37.9	1.15	82.5	84.0	85.5	0.52	0.66	0.75
		1145	143/5 JM	3.16	1.66	1.26	6.3	270%	320%	31	35.9	1.15	77.0	80.0	80.0	0.49	0.62	0.71
1.5	1.1	3520	143/5 JM	3.74	1.87	1.50	9.1	230%	300%	17	34.2	1.15	80.0	82.5	84.0	0.71	0.82	0.88
		1750	143/5 JM	4.04	2.02	1.62	8.2	270%	300%	21	37.9	1.15	85.5	86.5	86.5	0.59	0.72	0.79
		1170	182/4 JM	4.44	2.27	1.78	6.9	210%	320%	32	71.0	1.15	81.5	84.0	85.5	0.50	0.62	0.71
2	1.5	3520	143/5 JM	4.94	2.47	1.98	9.9	250%	300%	13	40.1	1.15	82.5	85.5	85.5	0.73	0.83	0.89
		1745	143/5 JM	5.44	2.72	2.18	8.2	270%	300%	15	42.3	1.15	85.5	87.5	86.5	0.60	0.73	0.80
		1170	182/4 JM	6.00	3.15	2.40	8.4	260%	370%	20	80.5	1.15	82.5	85.5	86.5	0.47	0.60	0.69
3	2.2	3500	143/5 JM	7.02	3.51	2.81	9.5	300%	380%	10	48.1	1.15	84.0	86.5	86.5	0.78	0.87	0.91
		3515	182/4 JM	7.34	3.67	2.94	8.8	220%	300%	22	63.5	1.15	84.0	86.5	86.5	0.71	0.82	0.87
		1765	182/4 JM	7.62	3.81	3.05	8.8	220%	300%	18	80.3	1.15	87.5	88.5	89.5	0.61	0.74	0.81
		1175	213/5 JM	8.34	4.26	3.34	6.2	230%	280%	36	101	1.15	85.5	87.5	87.5	0.53	0.66	0.74
5	3.7	3500	182/4 JM	11.8	5.90	4.72	7.8	220%	300%	17	78.5	1.15	87.5	88.5	88.5	0.76	0.85	0.89
		1750	182/4 JM	13.0	6.49	5.19	7.0	220%	300%	16	71.4	1.15	88.5	89.5	89.5	0.60	0.73	0.80
		1175	213/5 JM	13.5	7.08	5.39	6.4	250%	280%	20	122	1.15	86.5	87.5	89.5	0.55	0.68	0.75
7.5	5.5	3480	182/4 JM	17.1	8.57	6.86	6.0	270%	360%	19	79.4	1.15	88.5	89.5	89.5	0.77	0.86	0.90
		3530	213/5 JM	17.3	8.67	6.94	7.6	260%	300%	15	133	1.15	87.5	88.5	89.5	0.76	0.85	0.89
		1770	213/5 JM	18.1	9.07	7.26	7.3	260%	300%	22	120	1.15	90.2	91.0	91.7	0.64	0.76	0.82
		1175	254/6 JM	20.0	10.4	7.98	5.5	220%	240%	27	179	1.15	87.5	89.5	89.5	0.55	0.67	0.74
10	7.5	3530	213/5 JM	23.0	11.5	9.20	7.5	260%	300%	12	161	1.15	89.5	90.2	90.2	0.80	0.88	0.91
		1760	213/5 JM	24.4	12.2	9.76	7.0	250%	300%	15	130	1.15	91.0	91.0	91.7	0.67	0.78	0.84
		1175	254/6 JM	27.6	14.0	11.0	5.5	220%	240%	20	196	1.15	88.5	89.5	89.5	0.56	0.68	0.75
15	11	3525	254/6 JM	34.8	17.0	13.9	8.2	280%	330%	11	154	1.15	90.2	91.0	91.0	0.76	0.85	0.89
		3520	213/5 JM	34.0	17.4	13.6	7.0	200%	300%	14	175	1.15	89.5	91.0	91.0	0.73	0.83	0.87
		1770	254/6 JM	36.4	18.2	14.6	6.6	250%	300%	19	197	1.15	91.0	92.4	92.4	0.64	0.76	0.82
20	15	3515	254/6 JM	45.4	22.7	18.2	6.6	200%	290%	12	211	1.15	90.0	91.0	91.0	0.81	0.88	0.91
		1765	254/6 JM	49.4	24.7	19.8	6.7	270%	300%	16	227	1.15	91.7	92.4	93.0	0.66	0.77	0.82
25	18.5	3530	254/6 JM	57.0	28.5	22.8	8.3	240%	340%	8	221	1.15	91.0	91.7	91.7	0.77	0.85	0.89

W01 JM & JP Rolled Steel - NEMA Premium

TEFC - Mechanical Data



JM Type

Frame	2E	2F	A	AA	AB	B	BA	D	G	HB	HK	Hole H	J	LL
143/5JM	5.500	4.000/5.000	6.535	1.118	5.873	6.496	2.750	3.500	0.118	1.784	2.629	0.343	1.725	4.563
182/4JM	7.500	4.500/5.500	8.661		6.696	6.299	3.500	4.500	0.167	2.784		0.406	1.299	
213/5JM	8.500	5.500/7.000	9.449	1.377	7.973	7.953	4.250	5.250		2.982	3.022		1.575	5.551
254/6JM	10.000	8.252/10.000	11.417	1.732	9.448	11.417	4.750	6.250	0.187	3.631	3.645	0.530	1.693	6.299

Frame	LM	O	P	T	Shaft end						Bearings	
					d1	ES	Width	R	S	U	D.E.	N.D.E.
143/5JM	4.090	6.723	7.638	0.604	EUNC 3/8"-16	1.575	0.187	0.768	0.187	0.874	6206 ZZ	6203 ZZ
182/4JM		8.557	9.435	0.661							6207 ZZ	6205 ZZ
213/5JM	5.250	10.144	11.306	0.761							6209 ZZ	6206 ZZ
254/6JM	6.017	12.010	13.180	0.830	EUNC 1/2"-13	2.559	0.250	1.110	0.250	1.249	6309 Z-C3	6208 Z-C3

JP Type

Frame	2E	2F	A	AA	AB	B	BA	D	G	HB	HK	Hole H	J	LL
143/5JM	5.500	4.000/5.000	6.535	1.118	5.873	6.496	2.750	3.500	0.118	1.784	2.629	0.343	1.725	4.563
182/4JM	7.500	4.500/5.500	8.661		6.696	6.299	3.500	4.500	0.167	2.784	2.629	0.406	1.299	
213/5JM	8.500	5.500/7.000	9.449	1.377	7.973	7.953	4.250	5.250		2.982	3.022		1.575	5.551
254/6JM	10.000	8.252/10.000	11.417	1.732	9.448	11.417	4.750	6.250	0.187	3.631	3.645	0.530	1.693	6.299

Frame	LM	O	P	T	Shaft end						Bearings	
					d1	ES	Width	R	S	U	D.E.	N.D.E.
143/5JM	4.090	6.723	7.638	0.604	EUNC 3/8"-16	1.654	0.187	0.768	0.187	0.874	6206 ZZ	6203 ZZ
182/4JM		8.557	9.435	0.661							6207 ZZ	6205 ZZ
213/5JM	5.250	10.144	11.306	0.761	EUNC 1/2"-13	2.560	0.250	1.110	0.250	1.250	6209 ZZ	6206 ZZ
254/6JM	6.017	12.010	13.180	0.830		2.559					6309 Z-C3	6208 Z-C3

W22 JM & JP Pump Motors - NEMA Premium
TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing: V'Ring
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6JM
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5JM and up.
- NEMA design “B”
- Service Factor:
  - 1.25
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143/5JM to 213/5JM
  - 203A - Frames 254/6JM to 364/5JM
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6JM and up

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5JM or JP - 404/5JM or JP	All	20:1	1000:1	Any
	All	1000:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Special paint
- Insulated endbells available for 364/5JM
- Degree of protection: IP56, IP65, IP66
- UL Listed fire pump duty
- No feet

W22 JM & JP Pump Motors - NEMA Premium

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.) JM Type	Overall Length "C" Dim. (in.) JP Type
HP	RPM					460V	575V				
1	3600	143/5 JM or JP	$573	$584	JM000X02NPW22	1.44	1.15	81.5	36.4	15.304	18.365
	1800	143/5 JM or JP	$550	$561	JM000X04NPW22	1.41	1.13	85.5	40.8	15.304	18.365
	1200	143/5 JM or JP	$616	$628	JM000X06NPW22	1.73	1.38	82.5	52.9	15.304	18.365
1.5	3600	143/5 JM or JP	$595	$607	JM001X02NPW22	1.96	1.57	84.0	40.8	15.304	18.365
	1800	143/5 JM or JP	$595	$607	JM001X04NPW22	2.03	1.62	86.5	48.5	15.304	18.365
	1200	182/4 JM or JP	$867	$885	JM001X06NPW22	2.54	2.03	87.5	70.3	17.020	20.395
2	3600	143/5 JM or JP	$623	$635	JM002X02NPW22	2.56	2.05	85.5	51.8	15.304	18.365
	1800	143/5 JM or JP	$623	$635	JM002X04NPW22	2.61	2.09	86.5	50.7	15.304	18.365
	1200	182/4 JM or JP	$1,035	$1,055	JM002X06NPW22	3.23	2.58	88.5	87.5	17.020	20.395
3	3600	143/5 JM or JP	$747	$762	JM003X02NPW22145JM	3.71	2.97	86.5	51.8	15.304	18.365
	3600	182/4 JM or JP	$858	$875	JM003X02NPW22	3.63	2.90	86.5	88.2	17.020	20.395
	1800	182/4 JM or JP	$802	$818	JM003X04NPW22	3.88	3.10	89.5	90.4	17.020	20.395
	1200	213/5 JM or JP	$1,263	$1,289	JM003X06NPW22	4.41	3.53	89.5	121	20.174	24.046
5	3600	182/4 JM or JP	$888	$905	JM005X02NPW22	5.90	4.72	88.5	88.2	17.020	20.395
	1800	182/4 JM or JP	$935	$954	JM005X04NPW22	6.45	5.16	89.5	94.8	17.020	20.395
	1200	213/5 JM or JP	$1,531	$1,561	JM005X06NPW22	6.83	5.46	89.5	162	20.174	24.046
7.5	3600	182/4 JM or JP	$1,209	$1,233	JM007X02NPW22184JM	8.76	7.01	89.5	92.6	17.020	20.395
	3600	213/5 JM or JP	$1,374	$1,402	JM007X02NPW22	8.76	7.01	89.5	139	20.174	24.046
	1800	213/5 JM or JP	$1,173	$1,196	JM007X04NPW22	9.00	7.20	91.7	154	20.174	24.046
	1200	254/6 JM or JP	$2,214	$2,259	JM007X06NPW22	9.48	7.58	91.0	262	26.102	28.376
10	3600	213/5 JM or JP	$1,445	$1,473	JM010X02NPW22	11.6	9.28	90.2	163	20.174	24.046
	1800	213/5 JM or JP	$1,374	$1,402	JM010X04NPW22	12.4	9.92	91.7	172	20.174	24.046
	1200	254/6 JM or JP	$2,518	$2,568	JM010X06NPW22	12.9	10.3	91.0	289	26.102	28.376
15	3600	213/5 JM or JP	$2,020	$2,060	JM015X02NPW22215JM	17.0	13.6	91.0	163	20.174	24.046
	3600	254/6 JM or JP	$2,407	$2,455	JM015X02NPW22	17.3	13.8	91.0	236	26.102	28.376
	1800	254/6 JM or JP	$2,110	$2,152	JM015X04NPW22	18.0	14.4	92.4	251	26.102	28.376
	1200	284/6 JM or JP	$3,808	$3,884	JM015X06NPW22	17.9	14.3	91.7	379	28.700	31.575
20	3600	254/6 JM or JP	$2,751	$2,806	JM020X02NPW22	23.3	18.6	91.0	269	26.102	28.376
	1800	254/6 JM or JP	$2,506	$2,557	JM020X04NPW22	24.1	19.3	93.0	291	26.102	28.376
	1200	284/6 JM or JP	P.O.A	P.O.A	JM020X06NPW22	24.3	19.4	91.7	425	28.700	31.575
25	3600	254/6 JM or JP	$3,197	$3,261	JM025X02NPW22256JM	28.5	22.5	91.7	326	26.102	28.376
	3600	284/6 JM or JP	$3,550	$3,621	JM025X02NPW22	28.5	22.8	91.7	362	28.700	31.575
	1800	284/6 JM or JP	$3,063	$3,125	JM025X04NPW22	29.5	23.6	93.6	388	28.700	31.575
	1200	324/6 JM or JP	P.O.A	P.O.A	JM025X06NPW22	30.4	24.3	93.0	560	29.645	34.021
30	3600	284/6 JM or JP	$3,779	$3,854	JM030X02NPW22	33.8	27.0	91.7	392	28.700	31.575
	1800	284/6 JM or JP	$3,405	$3,473	JM030X04NPW22	35.1	28.1	93.6	437	28.700	31.575
	1200	324/6 JM or JP	P.O.A	P.O.A	JM030X06NPW22	35.8	28.6	93.0	553	29.645	34.021
40	3600	284/6 JM or JP	$4,777	$4,873	JM040X02NPW22286JM	45.8	36.6	92.4	437	28.700	31.575
	3600	324/6 JM or JP	$5,373	$5,480	JM040X02NPW22	45.8	36.6	92.4	547	29.645	34.021
	1800	324/6 JM or JP	$4,748	$4,843	JM040X04NPW22	48.3	38.6	94.1	492	29.645	34.021
	1200	364/5 JM or JP	P.O.A	P.O.A	JM040X06NPW22	46.5	37.2	94.1	833	33.031	35.916
50	3600	324/6 JM or JP	$6,102	$6,224	JM050X02NPW22	56.1	44.9	93.0	584	29.645	34.021
	1800	324/6 JM or JP	$5,285	$5,390	JM050X04NPW22	59.3	47.4	94.5	536	29.645	34.021
	1200	364/5 JM or JP	P.O.A	P.O.A	JM050X06NPW22	57.4	45.9	94.1	869	33.031	35.916
60	3600	324/6 JM or JP	$6,736	$6,871	JM060X02NPW22326JM	70.2	56.1	93.6	584	29.645	34.021
	3600	364/5 JM or JP	$9,568	$9,760	JM060X02NPW22	67.0	53.6	93.6	825	33.031	35.916
	1800	364/5 JM or JP	$8,235	$8,399	JM060X04NPW22	68.3	54.6	95.0	869	33.031	35.916
75	3600	364/5 JM or JP	$10,220	$10,425	JM075X02NPW22	81.9	65.5	93.6	847	33.031	35.916
	1800	364/5 JM or JP	$9,351	$9,538	JM075X04NPW22	84.1	67.3	95.4	919	33.031	35.916

Flange: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W22 JM & JP Pump Motors - NEMA Premium

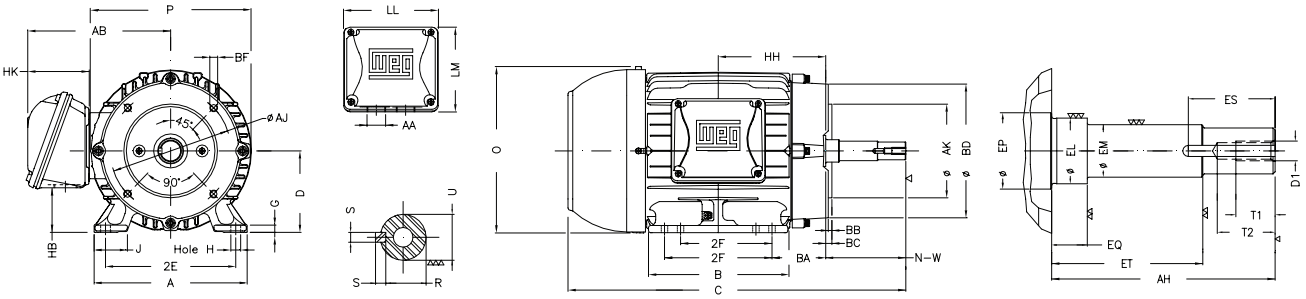
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3480	143/5JM	2.85	1.43	1.14	8.2	280%	340%	22	36.4	68	1.25	74.0	77.0	78.5	0.69	0.79	0.84
		1770	143/5JM	2.83	1.41	1.13	8.4	280%	350%	18	40.8	51	1.25	80.0	84.0	85.5	0.60	0.70	0.78
		1150	143/5JM	3.45	1.73	1.38	6.2	300%	300%	28	52.9	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
1.5	1.1	3455	143/5JM	3.93	1.96	1.57	8.9	350%	380%	21	40.8	68	1.25	81.5	84.0	84.0	0.70	0.80	0.84
		1760	143/5JM	4.05	2.03	1.62	8.3	250%	340%	14	48.5	51	1.25	82.5	85.5	86.5	0.60	0.70	0.79
		1160	182/4JM	5.08	2.54	2.03	8.0	320%	400%	16	70.3	52	1.25	84.0	86.5	87.5	0.45	0.54	0.62
2	1.5	3450	143/5JM	5.13	2.56	2.05	8.9	350%	380%	17	51.8	68	1.25	82.5	85.5	85.5	0.71	0.80	0.86
		1755	143/5JM	5.23	2.61	2.09	7.5	240%	300%	11	50.7	51	1.25	84.0	86.5	86.5	0.66	0.78	0.84
		1160	182/4JM	6.45	3.23	2.58	7.5	300%	300%	31	87.5	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
3	2.2	3450	143/5JM	7.43	3.71	2.97	8.1	330%	360%	14	51.8	68	1.25	85.5	86.5	86.5	0.70	0.81	0.86
		3500	182/4JM	7.25	3.63	2.90	8.3	240%	380%	41	88.2	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182/4JM	7.75	3.88	3.10	8.1	230%	340%	23	90.4	56	1.25	86.5	88.5	89.5	0.61	0.73	0.79
		1170	213/5JM	8.83	4.41	3.53	7.0	200%	280%	58	121	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
5	3.7	3490	182/4JM	11.8	5.90	4.72	7.5	230%	350%	25	88.2	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1750	182/4JM	12.9	6.45	5.16	7.5	230%	320%	15	94.8	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1165	213/5JM	13.7	6.83	5.46	6.6	190%	240%	57	162	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
7.5	5.5	3470	182/4JM	17.5	8.76	7.01	8.2	270%	330%	17	92.6	69	1.25	88.5	89.5	89.5	0.75	0.84	0.88
		3510	213/5JM	17.5	8.76	7.01	7.2	210%	300%	27	139	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1755	213/5JM	18.0	9.00	7.20	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.67	0.78	0.84
		1175	254/6JM	19.0	9.48	7.58	6.8	250%	300%	30	262	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
10	7.5	3510	213/5JM	23.2	11.6	9.28	7.2	210%	290%	24	163	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1755	213/5JM	24.8	12.4	9.92	6.4	200%	300%	17	172	58	1.25	90.2	91.7	91.7	0.66	0.77	0.83
		1170	254/6JM	25.8	12.9	10.3	6.5	230%	280%	26	289	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
15	11	3490	213/5JM	34.0	17.0	13.6	7.6	240%	280%	14	163	72	1.25	90.2	91.0	91.0	0.76	0.85	0.89
		3520	254/6JM	34.5	17.3	13.8	6.8	220%	270%	25	236	72	1.25	89.5	91.0	91.0	0.77	0.85	0.88
		1765	254/6JM	36.0	18.0	14.4	6.5	230%	270%	17	251	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284/6JM	35.8	17.9	14.3	6.6	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
20	15	3520	254/6JM	46.5	23.3	18.6	6.1	200%	240%	21	269	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1760	254/6JM	48.3	24.1	19.3	6.5	230%	270%	15	291	64	1.25	91.7	92.4	93.0	0.68	0.79	0.84
		1175	284/6JM	48.5	24.3	19.4	6.2	230%	260%	16	425	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
25	18.5	3530	284/6JM	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1760	284/6JM	59.0	29.5	23.6	6.2	240%	270%	24	388	64	1.25	92.4	93.0	93.6	0.70	0.80	0.84
		1175	324/6JM	60.8	30.4	24.3	6.2	210%	260%	26	560	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
30	22	3530	284/6JM	67.5	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1760	284/6JM	70.3	35.1	28.1	6.1	240%	240%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1175	324/6JM	71.5	35.8	28.6	6.2	230%	260%	21	553	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
40	30	3550	324/6JM	91.5	45.8	36.6	6.4	230%	240%	22	547	78	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1770	324/6JM	96.5	48.3	38.6	6.2	220%	260%	20	492	66	1.25	93.0	94.1	94.1	0.67	0.78	0.83
		1180	364/5JM	93.0	46.5	37.2	6.4	200%	240%	21	833	66	1.25	93.6	93.6	94.1	0.73	0.82	0.86
50	37	3555	324/6JM	112	56.1	44.9	6.2	220%	230%	23	584	78	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1770	324/6JM	119	59.3	47.4	6.2	230%	270%	15	536	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5JM	115	57.4	45.9	6.4	200%	240%	18	869	66	1.25	93.6	94.1	94.1	0.74	0.83	0.86
60	45	3550	364/5JM	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1770	364/5JM	137	68.3	54.6	6.6	240%	260%	15	869	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
75	55	3550	364/5JM	164	81.9	65.5	6.6	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1770	364/5JM	168	84.1	67.3	6.4	240%	260%	14	919	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86

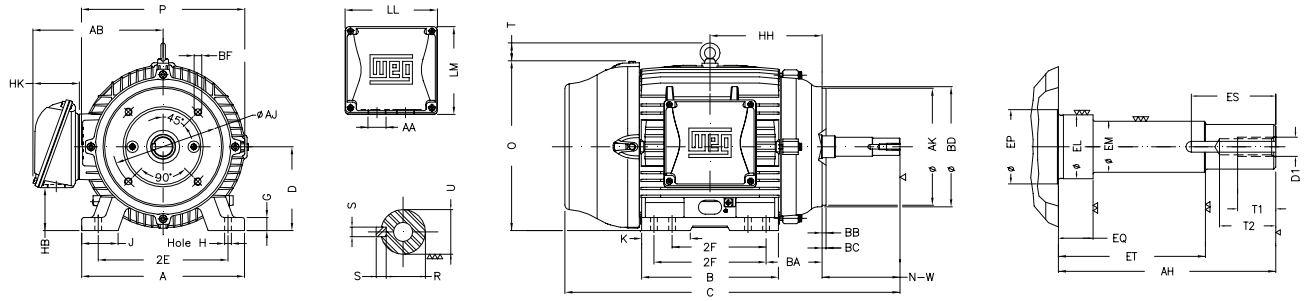
W22 JM & JP Pump Motors - NEMA Premium

TEFC - Mechanical Data

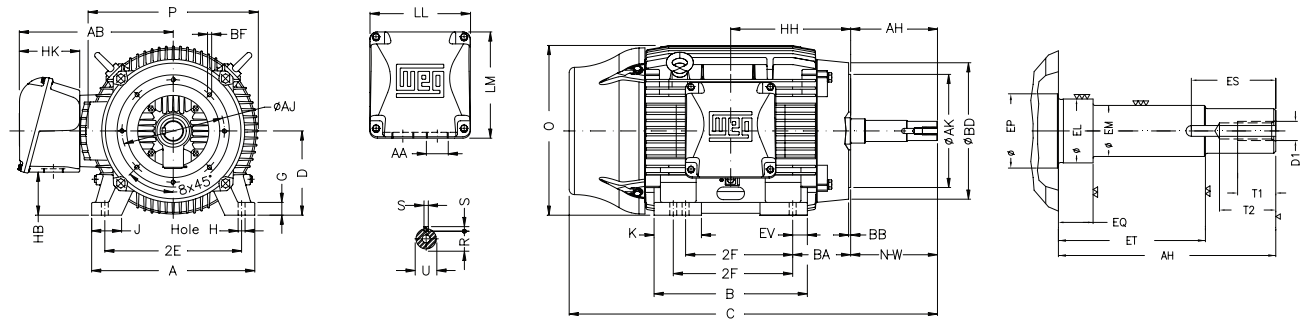
Frames 143/5JM or JP to 213/5JM or JP



Frames 254/6JM or JP to 324/6JM or JP



Frames 364/5JM or JP to 404/5JP



W22 JM & JP Pump Motors - NEMA Premium

TEFC - Mechanical Data

JM Type

Frame	BA	AJ	AK	BB	BD	BF TAP	BF NUMBER	C	AH	EQ	ET	U	EM	EL	S	R	ES	d1	T1	T2	DE BRG	N.D.E. BRG
143/5JM	2.250	5.874	4.500	0.156	6.496	UNC 3/8"x16	4	15.304	4.258	0.630	2.880	0.874	1.000	1.156	0.187	0.768	1.575	UNC 3/8"-16	0.748	1.102	6206 ZZ	6204 ZZ
182/4JM	2.750							17.020						1.250							6307 ZZ	6206 ZZ
213/5JM	3.500	7.252	8.500	0.250	8.858	UNC 1/2"x13		20.174													6309 C3	6207 ZZ
254/6JM	4.250							26.102	5.250		3.006	1.249	1.375	1.750	0.250	1.110	2.480	UNC 1/2"-13	0.984	1.496	6309 C3	6209 C3
284/6JM	4.750	11.000	12.500		13.593	UNC 5/8"x11		28.700													6311 C3	6211 C3
324/6JM	5.250							29.645													6312 C3	6212 C3
364/5JM	5.875				15.562		8	33.031													6314 C3	6314 C3

JP Type

Frame	BA	AJ	AK	BB	BD	BF TAP	BF NUMBER	C	AH	EQ	ET	U	EM	EL	S	R	ES	d1	T1	T2	DE BRG	N.D.E. BRG
143/5JP	2.250	5.874	4.500	0.156	6.496	UNC 3/8"x16	4	18.365	7.319	1.563	5.941	0.874	1.000	1.156	0.187	0.768	1.575	UNC 3/8"-16	0.748	1.102	6206 ZZ	6204 ZZ
182/4JP	2.750	5.874						20.395						1.250							6307 ZZ	6206 ZZ
213/5JP	3.500	7.252	8.500	0.250	8.858	UNC 1/2"x13		24.046	8.130	2.382	5.886	1.249	1.375	1.750	0.250	1.110	2.480	UNC 1/2"-13	0.984	1.496	6309 ZZ-C3	6207 ZZ
254/6JP	4.500	7.252						28.736													6309 C3	6209 C3
284/6JP	5.000	11.000	12.500		13.593	UNC 5/8"x11		31.575													6311 C3	6211 C3
324/6JP	5.500	11.000						32.525													6312 C3	6212 C3
364/5JP	5.875	11.000			15.562		8	35.916				1.624	1.750	2.125	0.375	1.413					6314 C3	6314 C3
404/5JP	6.625	11.000						38.911													6314 C3	6314 C3

W01 JM & JP Rolled Steel - High Efficiency
ODP

Standard Features

- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Open Drip Proof - ODP (IP21)
- Die cast aluminum squirrel cage rotor
- Bearings:
  - ZZ / Normal up to frame 213/5JM
  - Z / C3 for frame 254/6JM
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207N - Frame 143/5JM
  - 207A - Frame 182/4JM & 213/5JM
  - 203A - Frame 254/6JM
- Color: Munsell N1 - Flat Black
- All frames have dual mounting

Mechanical & Electrical Data is available upon request

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5JM or JP - 254/6TJM or JP	All	2:1	1000:1	Any
See page 7.6 for details				

Fire Pump Duty

Motor also certified for fire pump application with SF 1.15

LISTED
68YN
FIRE PUMP MOTOR
EX5990

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- Special paint
- No feet

W01 JM & JP Rolled Steel - High Efficiency

ODP - Vertical - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)
HP	RPM					460V	575V		
1	3600	143/5 JM or JP	$594	$606	JM000X02DPSW01	1.35	1.08	80.0	25.4
	1800	143/5 JM or JP	$568	$580	JM000X04DPSW01	1.63	1.30	82.5	30.0
	1200	143/5 JM or JP	$784	$800	JM000X06DPSW01	1.71	1.37	80.0	38.1
1.5	3600	143/5 JM or JP	$600	$614	JM001X02DPSW01	1.88	1.50	82.5	29.3
	1800	143/5 JM or JP	$606	$618	JM001X04DPSW01	2.19	1.75	84.0	35.9
	1200	182/4 JM or JP	$884	$897	JM001X06DPSW01	2.31	1.85	84.0	61.5
2	3600	143/5 JM or JP	$653	$667	JM002X02DPSW01	2.52	2.02	84.0	34.0
	1800	143/5 JM or JP	$639	$651	JM002X04DPSW01	2.91	2.33	84.0	39.0
	1200	182/4 JM or JP	$1,008	$1,025	JM002X06DPSW01	3.06	2.45	85.5	71.0
3	3600	143/5 JM or JP	$707	$720	JM003X02DPSW01	3.69	2.95	84.0	37.0
	1800	182/4 JM or JP	$824	$840	JM003X04DPSW01	4.04	3.23	86.5	50.7
	1200	213/5 JM or JP	$1,255	$1,280	JM003X06DPSW01	4.31	3.45	86.5	107
5	3600	182/4 JM or JP	$926	$945	JM005X02DPSW01	6.24	4.99	85.5	53.4
	1800	182/4 JM or JP	$937	$957	JM005X04DPSW01	6.47	5.18	87.5	66.4
	1200	213/5 JM or JP	$1,447	$1,473	JM005X06DPSW01	6.89	5.51	87.5	109
7.5	3600	182/4 JM or JP	$1,107	$1,130	JM007X02DPSW01	8.86	7.09	87.5	62.8
	1800	213/5 JM or JP	$1,236	$1,261	JM007X04DPSW01	9.29	7.43	88.5	101
	1200	254/6 JM or JP	$2,012	$2,052	JM007X06DPSW01	10.8	8.64	88.5	157
10	3600	213/5 JM or JP	$1,365	$1,393	JM010X02DPSW01	12.2	9.76	88.5	103
	1800	213/5 JM or JP	$1,365	$1,393	JM010X04DPSW01	12.4	9.92	89.5	116
	1200	254/6 JM or JP	$2,391	$2,431	JM010X06DPSW01	14.3	11.4	90.2	184
15	3600	213/5 JM or JP	$1,764	$1,798	JM015X02DPSW01	17.5	14.0	89.5	117
	1800	254/6 JM or JP	$1,996	$2,036	JM015X04DPSW01	18.5	14.8	91.0	152
20	3600	254/6 JM or JP	$2,126	$2,169	JM020X02DPSW01	23.7	19.0	90.2	151
	1800	254/6 JM or JP	$2,342	$2,389	JM020X04DPSW01	25.5	20.4	91.0	166
25	3600	254/6 JM or JP	$2,543	$2,593	JM025X02DPSW01	29.0	23.2	91.0	169

Type: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

ODP - Horizontal - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.) JM Type	Overall Length "C" Dim. (in.) JP Type
HP	RPM					460V	575V				
1	3600	143/5 JM or JP	$509	$519	JM000X02DPW01	1.35	1.08	80.0	25.4	13.701	16.772
	1800	143/5 JM or JP	$492	$503	JM000X04DPW01	1.63	1.30	82.5	30.0	13.701	16.772
	1200	143/5 JM or JP	$656	$667	JM000X06DPW01	1.71	1.37	80.0	38.1	14.488	16.772
1.5	3600	143/5 JM or JP	$525	$535	JM001X02DPW01	1.88	1.50	82.5	29.3	13.701	17.165
	1800	143/5 JM or JP	$531	$541	JM001X04DPW01	2.19	1.75	84.0	35.9	14.094	18.543
	1200	182/4 JM or JP	$756	$770	JM001X06DPW01	2.31	1.85	84.0	61.5	16.260	19.331
2	3600	143/5 JM or JP	$578	$590	JM002X02DPW01	2.52	2.02	84.0	34.0	13.701	21.575
	1800	143/5 JM or JP	$563	$574	JM002X04DPW01	2.91	2.33	84.0	39.0	14.488	21.969
	1200	182/4 JM or JP	$890	$905	JM002X06DPW01	3.06	2.45	85.5	71.0	17.047	24.843
3	3600	143/5 JM or JP	$631	$643	JM003X02DPW01	3.69	2.95	84.0	37.0	14.094	24.843
	1800	182/4 JM or JP	$729	$744	JM003X04DPW01	4.04	3.23	86.5	50.7	15.472	16.772
	1200	213/5 JM or JP	$1,149	$1,171	JM003X06DPW01	4.31	3.45	86.5	107	17.717	17.165
5	3600	182/4 JM or JP	$832	$849	JM005X02DPW01	6.24	4.99	85.5	53.4	15.472	17.559
	1800	182/4 JM or JP	$843	$859	JM005X04DPW01	6.47	5.18	87.5	66.4	16.654	18.543
	1200	213/5 JM or JP	$1,359	$1,381	JM005X06DPW01	6.89	5.51	87.5	109	17.717	19.724
7.5	3600	182/4 JM or JP	$1,013	$1,033	JM007X02DPW01	8.86	7.09	87.5	62.8	16.260	21.575
	1800	213/5 JM or JP	$1,141	$1,164	JM007X04DPW01	9.29	7.43	88.5	101	17.717	21.575
	1200	254/6 JM or JP	$1,861	$1,900	JM007X06DPW01	10.8	8.64	88.5	157	21.969	24.843
10	3600	213/5 JM or JP	$1,264	$1,289	JM010X02DPW01	12.2	9.76	88.5	103	17.717	24.843
	1800	213/5 JM or JP	$1,264	$1,289	JM010X04DPW01	12.4	9.92	89.5	116	17.717	17.165
	1200	254/6 JM or JP	$2,299	$2,337	JM010X06DPW01	14.3	11.4	90.2	184	21.969	19.331
15	3600	213/5 JM or JP	$1,663	$1,696	JM015X02DPW01	17.5	14.0	89.5	117	18.110	20.118
	1800	254/6 JM or JP	$1,857	$1,895	JM015X04DPW01	18.5	14.8	91.0	152	21.969	21.575
20	3600	254/6 JM or JP	$2,014	$2,055	JM020X02DPW01	23.7	19.0	90.2	151	21.969	21.575
	1800	254/6 JM or JP	$2,216	$2,261	JM020X04DPW01	25.5	20.4	91.0	166	21.969	24.843
25	3600	254/6 JM or JP	$2,406	$2,453	JM025X02DPW01	29.0	23.2	91.0	169	21.969	24.843

Type: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W01 JM & JP Rolled Steel - NEMA Premium
ODP

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Open Drip Proof - ODP (IP21)
- Die cast aluminum squirrel cage rotor
- V'Ring sealing
- Bearings:
  - ZZ / Normal up to frame 213/5JM
  - Z / C3 for frame 254/6JM
- 1045 heat treated and stress relieved carbon steel shaft
- Class "F" insulation for all frames. Temperature rise limited to Class "B" (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Dip and Bake Insulation system
- NEMA design "B"
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207N - Frame 143/5JM
  - 207A - Frame 182/4JM & 213/5JM
  - 203A - Frame 254/6JM
- Color: Munsell N1 - Flat Black
- All frames have dual mounting

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5JM or JP - 254/6JM or JP	2 Pole	3:1	1000:1	Any
	4 Pole	5:1		
See page 7.6 for details				

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Thermostats, Thermistors
- Drip cover (canopy) for shaft down applications
- Special paint
- No feet

W01 JM & JP Rolled Steel - NEMA Premium

ODP - Vertical - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.) JM Type	Overall Length "C" Dim. (in.) JP Type
HP	RPM					460V	575V				
1	3600	143/5 JM or JP	$680	$693	JM000X02DPNPSW01	1.38	1.10	80.0	25.4	15.078	18.149
	1800	143/5 JM or JP	$682	$695	JM000X04DPNPSW01	1.51	1.21	85.5	34.4	15.078	18.149
	1200	143/5 JM or JP	P.O.A	P.O.A	JM000X06DPNPSW01	1.65	1.32	82.5	35.3	15.078	18.149
1.5	3600	143/5 JM or JP	$722	$735	JM001X02DPNPSW01	1.85	1.48	84.0	29.3	15.078	18.149
	1800	143/5 JM or JP	$726	$742	JM001X04DPNPSW01	2.07	1.66	86.5	41.9	16.259	19.33
	1200	182/4 JM or JP	P.O.A	P.O.A	JM001X06DPNPSW01	2.25	1.80	86.5	56	16.849	19.92
2	3600	143/5 JM or JP	$784	$800	JM002X02DPNPSW01	2.42	1.94	85.5	36.8	15.471	18.542
	1800	143/5 JM or JP	$767	$782	JM002X04DPNPSW01	2.69	2.15	86.5	39	16.259	19.33
	1200	182/4 JM or JP	P.O.A	P.O.A	JM002X06DPNPSW01	2.95	2.36	87.5	66.1	17.637	20.708
3	3600	143/5 JM or JP	$847	$865	JM003X02DPNPSW01	3.59	2.87	85.5	39.9	15.865	18.936
	1800	182/4 JM or JP	$988	$1,008	JM003X04DPNPSW01	3.86	3.09	89.5	65.9	18.031	21.101
	1200	213/5 JM or JP	P.O.A	P.O.A	JM003X06DPNPSW01	4.16	3.33	88.5	98.3	19.646	23.504
5	3600	182/4 JM or JP	$1,110	$1,134	JM005X02DPNPSW01	6.10	4.88	86.5	58.7	17.637	20.708
	1800	182/4 JM or JP	$1,125	$1,147	JM005X04DPNPSW01	6.33	5.06	89.5	79.8	19.212	22.283
	1200	213/5 JM or JP	P.O.A	P.O.A	JM005X06DPNPSW01	6.74	5.39	89.5	118	20.039	23.898
7.5	3600	182/4 JM or JP	$1,328	$1,354	JM007X02DPNPSW01	8.67	6.94	88.5	69.9	18.031	21.101
	1800	213/5 JM or JP	$1,483	$1,512	JM007X04DPNPSW01	9.25	7.40	91.0	116	19.646	23.504
	1200	254/6 JM or JP	P.O.A	P.O.A	JM007X06DPNPSW01	10.2	8.16	90.2	187	23.898	26.772
10	3600	213/5 JM or JP	$1,638	$1,671	JM010X02DPNPSW01	12.0	9.60	89.5	117	20.039	23.898
	1800	213/5 JM or JP	$1,638	$1,671	JM010X04DPNPSW01	12.4	9.92	91.7	137	19.646	23.504
	1200	254/6 JM or JP	P.O.A	P.O.A	JM010X06DPNPSW01	13.9	11.1	91.7	209	23.898	26.772
15	3600	213/5 JM or JP	$2,116	$2,157	JM015X02DPNPSW01	17.2	13.8	90.2	131	20.827	24.685
	1800	254/6 JM or JP	$2,395	$2,442	JM015X04DPNPSW01	18.6	14.9	93.0	175	23.898	26.772
20	3600	254/6 JM or JP	$2,552	$2,602	JM020X02DPNPSW01	23.8	19.0	91.0	151	23.898	26.772
	1800	254/6 JM or JP	$2,811	$2,868	JM020X04DPNPSW01	25.0	20.0	93.0	198	23.898	26.772
25	3600	254/6 JM or JP	$3,053	$3,112	JM025X02DPNPSW01	29.1	23.3	91.7	174	23.898	26.772

Type: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

ODP - Horizontal - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.) JM Type	Overall Length "C" Dim. (in.) JP Type
HP	RPM					460V	575V				
1	3600	143/5 JM or JP	$440	$449	JM000X02DPNPW01	1.38	1.10	80.0	25.4	13.701	16.772
	1800	143/5 JM or JP	$444	$453	JM000X04DPNPW01	1.51	1.21	85.5	34.4	13.701	16.772
	1200	143/5 JM or JP	P.O.A	P.O.A	JM000X06DPNPW01	1.65	1.32	82.5	35.3	13.701	16.772
1.5	3600	143/5 JM or JP	$472	$482	JM001X02DPNPW01	1.85	1.48	84.0	29.3	13.701	16.772
	1800	143/5 JM or JP	$481	$491	JM001X04DPNPW01	2.07	1.66	86.5	41.9	14.882	17.953
	1200	182/4 JM or JP	P.O.A	P.O.A	JM001X06DPNPW01	2.25	1.80	86.5	56	15.472	18.543
2	3600	143/5 JM or JP	$487	$496	JM002X02DPNPW01	2.42	1.94	85.5	36.8	14.094	17.165
	1800	143/5 JM or JP	$495	$505	JM002X04DPNPW01	2.69	2.15	86.5	39	14.882	17.953
	1200	182/4 JM or JP	P.O.A	P.O.A	JM002X06DPNPW01	2.95	2.36	87.5	66.1	16.260	19.331
3	3600	143/5 JM or JP	$510	$520	JM003X02DPNPW01	3.59	2.87	85.5	39.9	14.488	17.559
	1800	182/4 JM or JP	$624	$637	JM003X04DPNPW01	3.86	3.09	89.5	65.9	16.654	19.724
	1200	213/5 JM or JP	P.O.A	P.O.A	JM003X06DPNPW01	4.16	3.33	88.5	98.3	17.717	21.575
5	3600	182/4 JM or JP	$695	$709	JM005X02DPNPW01	6.10	4.88	86.5	58.7	16.26	19.331
	1800	182/4 JM or JP	$708	$722	JM005X04DPNPW01	6.33	5.06	89.5	79.8	17.835	20.906
	1200	213/5 JM or JP	P.O.A	P.O.A	JM005X06DPNPW01	6.74	5.39	89.5	118	18.110	21.969
7.5	3600	182/4 JM or JP	$843	$860	JM007X02DPNPW01	8.67	6.94	88.5	69.9	16.654	19.724
	1800	213/5 JM or JP	$982	$1,001	JM007X04DPNPW01	9.25	7.40	91.0	116	17.717	21.575
	1200	254/6 JM or JP	P.O.A	P.O.A	JM007X06DPNPW01	10.2	8.16	90.2	187	21.969	24.843
10	3600	213/5 JM or JP	$1,117	$1,139	JM010X02DPNPW01	12.0	9.60	89.5	117	18.110	21.969
	1800	213/5 JM or JP	$1,138	$1,138	JM010X04DPNPW01	12.4	9.92	91.7	137	17.717	21.575
	1200	254/6 JM or JP	P.O.A	P.O.A	JM010X06DPNPW01	13.9	11.1	91.7	209	21.969	24.843
15	3600	213/5 JM or JP	$1,318	$1,345	JM015X02DPNPW01	17.2	13.8	90.2	131	18.898	22.756
	1800	254/6 JM or JP	$1,661	$1,694	JM015X04DPNPW01	18.6	14.9	93.0	175	21.969	24.843
20	3600	254/6 JM or JP	$1,818	$1,854	JM020X02DPNPW01	23.8	19.0	91.0	151	21.969	24.843
	1800	254/6 JM or JP	$1,889	$1,927	JM020X04DPNPW01	25.0	20.0	93.0	198	21.969	24.843
25	3600	254/6 JM or JP	$2,187	$2,231	JM025X02DPNPW01	29.1	23.3	91.7	174	21.969	24.843

Type: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W01 JM & JP Rolled Steel - NEMA Premium

ODP - Vertical and Horizontal - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
1	0.75	3510	143/5JM	2.76	1.38	1.10	8.3	210%	330%	22	25.4	1.15	74.0	78.5	80.0	0.66	0.78	0.85
		1760	143/5JM	3.02	1.51	1.21	8.0	290%	360%	22	34.4	1.15	81.5	84.0	85.5	0.51	0.65	0.73
		1150	143/5JM	3.30	1.65	1.32	6.1	250%	300%	24	35.3	1.15	78.5	81.5	82.5	0.47	0.60	0.69
1.5	1.1	3510	143/5JM	3.70	1.85	1.48	8.6	210%	330%	19	29.3	1.15	81.5	84.0	84.0	0.73	0.83	0.89
		1760	143/5JM	4.14	2.07	1.66	8.7	280%	330%	15	41.9	1.15	84.0	86.5	86.5	0.56	0.69	0.77
		1165	182/4JM	4.50	2.25	1.80	6.5	200%	310%	46	56.0	1.15	84.0	85.5	86.5	0.51	0.63	0.71
2	1.5	3510	143/5JM	4.84	2.42	1.94	8.9	220%	330%	14	36.8	1.15	84.0	85.5	85.5	0.77	0.86	0.91
		1740	143/5JM	5.38	2.69	2.15	7.7	260%	320%	17	39.0	1.15	85.5	86.5	86.5	0.61	0.74	0.81
		1165	182/4JM	5.90	2.95	2.36	6.6	200%	300%	33	66.1	1.15	85.5	86.5	87.5	0.53	0.66	0.73
3	2.2	3480	143/5JM	7.18	3.59	2.87	8.0	230%	300%	9	39.9	1.15	84.0	85.5	85.5	0.76	0.86	0.90
		1765	182/4JM	7.72	3.86	3.09	8.4	220%	330%	15	65.9	1.15	87.5	88.5	89.5	0.60	0.73	0.80
		1175	213/5JM	8.32	4.16	3.33	5.9	210%	260%	39	98.3	1.15	86.5	87.5	88.5	0.56	0.68	0.75
5	3.7	3510	182/4JM	12.2	6.10	4.88	7.6	190%	300%	12	58.7	1.15	85.5	86.5	86.5	0.73	0.83	0.88
		1760	182/4JM	12.7	6.33	5.06	7.2	200%	310%	12	79.8	1.15	88.5	88.5	89.5	0.63	0.76	0.82
		1175	213/5JM	13.5	6.74	5.39	5.9	220%	250%	29	118	1.15	88.5	89.5	89.5	0.58	0.70	0.77
7.5	5.5	3500	182/4JM	17.3	8.67	6.94	7.4	180%	290%	10	69.9	1.15	88.5	88.5	88.5	0.76	0.85	0.90
		1770	213/5JM	18.5	9.25	7.40	7.3	240%	320%	13	116	1.15	89.5	90.2	91.0	0.65	0.77	0.82
		1175	254/6JM	20.4	10.2	8.16	5.1	200%	230%	37	187	1.15	88.5	90.2	90.2	0.56	0.68	0.75
10	7.5	3535	213/5JM	24.0	12.0	9.60	6.8	200%	280%	11	117	1.15	88.5	89.5	89.5	0.74	0.84	0.88
		1770	213/5JM	24.8	12.4	9.92	7.0	250%	350%	14	137	1.15	90.2	91.0	91.7	0.64	0.77	0.83
		1180	254/6JM	27.8	13.9	11.1	5.3	210%	230%	34	209	1.15	91.0	91.7	91.7	0.56	0.68	0.74
15	11	3535	213/5JM	34.4	17.2	13.8	6.9	210%	280%	8	131	1.15	90.2	90.2	90.2	0.77	0.86	0.89
		1775	254/6JM	37.2	18.6	14.9	6.7	240%	300%	17	175	1.15	91.7	92.4	93.0	0.62	0.73	0.80
20	15	3525	254/6JM	47.6	23.8	19.0	6.0	180%	240%	13	151	1.15	90.2	91.0	91.0	0.76	0.83	0.87
		1770	254/6JM	50.0	25.0	20.0	6.3	240%	290%	15	198	1.15	92.4	92.4	93.0	0.63	0.74	0.81
25	18.5	3530	254/6JM	58.2	29.1	23.3	6.3	180%	290%	9	174	1.15	91.0	91.7	91.7	0.73	0.83	0.87

W01 JM & JP Pump Motors - NEMA Premium Efficiency

ODP - Mechanical Data

JM Type

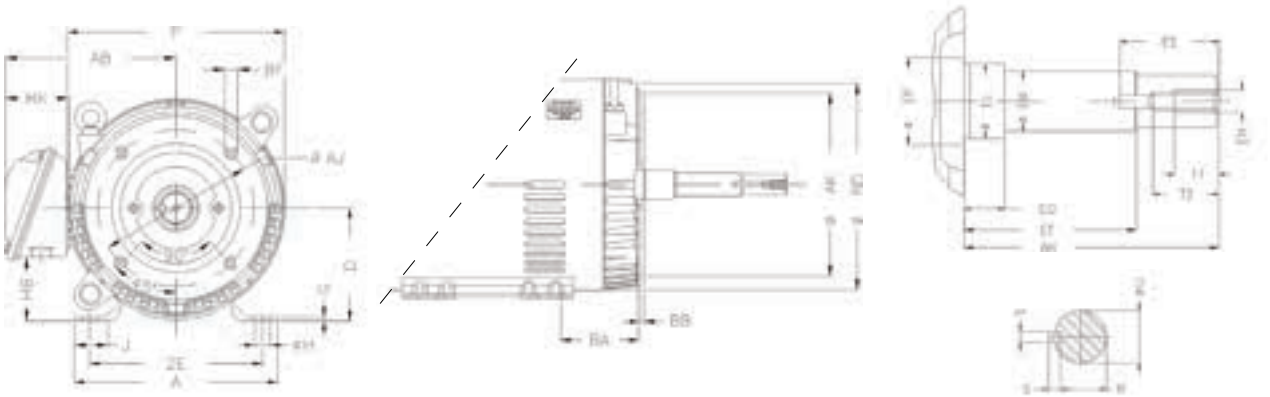
Frame	MOUNTING				A	B	D	NEMA C FLANGE					
	2E	2F	H	BA				AJ	AK	BB	BD	BF TAP	BF NUMBER
143/5JM	5.500	4.000/5.000	0.343	2.250	6.535	6.496	3.500	5.874	4.500	0.157	6.028	UNC 3/8"X16	4
182/4JM	7.500	4.500/5.500	0.406	2.750	8.661	6.299	4.500			0.138	6.496		
213/5JM	8.500	5.500/7.000		3.500	9.449	7.953	5.250	7.250	8.500	0.250	9.401	UNC 1/2"X13	
254/6JM	10.000	8.252/10.000	0.530	4.250	11.417	11.417	6.250				11.084		

Frame	SHAFT END													BEARINGS	
	AH	EQ	ET	U	EM	EL	EP	S	R	ES	d1	T1	T2	D.E.	N.D.E.
143/5JM	4.267	0.630	2.880	0.874	1.000	1.156	1.179	0.187	0.768	1.575	3/8"X16	0.787	1.102	6206-ZZ	6203-ZZ
182/4JM	4.258					1.250	1.376			1.653		0.748	1.102	6207-ZZ	6205-ZZ
213/5JM							1.769			1.575	1/2"X13			6209-ZZ	6206-ZZ
254/6JM	5.250		3.006	1.249	1.375	1.750		0.250	1.110	2.559		1.024	1.496	6309-Z-C3	6208-Z-C3

JP Type

Frame	MOUNTING				A	B	D	NEMA C FLANGE					
	2E	2F	H	BA				AJ	AK	BB	BD	BF TAP	BF NUMBER
143/5JP	5.500	4.000/5.000	0.343	2.250	6.535	6.496	3.500	5.874	4.500	0.157	6.028	UNC 3/8"X16	4
182/4JP	7.500	4.500/5.500	0.406	2.750	8.661	6.299	4.500			0.138	6.496		
213/5JP	8.500	5.500/7.000		3.500	9.449	7.953	5.250	7.250	8.500	0.250	9.401	UNC 1/2"X13	
254/6JP	10.000	8.252/10.000	0.530	4.250	11.417	11.417	6.250				11.084		

Frame	SHAFT END													BEARINGS	
	AH	EQ	ET	U	EM	EL	EP	S	R	ES	d1	T1	T2	D.E.	N.D.E.
143/5JP	7.319	1.563	5.941	0.874	1.000	1.156	1.179	0.187	0.768	1.654	3/8"X16	0.787	1.102	6206-ZZ	6203-ZZ
182/4JP						1.250	1.376					0.748		6207-ZZ	6205-ZZ
213/5JP	8.130	2.374	5.886	1.250	1.375	1.750	1.769	0.250	1.110	2.560	1/2"X13	0.984	1.496	6209-ZZ	6206-ZZ
254/6JP		2.382		1.249						2.559		1.024	1.496	6309-Z-C3	6208-Z-C3



W40 JM & JP Pump Motors - NEMA Premium Efficiency
ODP

Standard Features

- Three phase, 2, 4 and 6 pole, 60Hz
- Voltage: 208-230/460V, 460V or 575V
- Die cast aluminum squirrel cage rotor
- Class “F” insulation
- Temperature rise: Class “B” (80ºC)
- 104°F (40ºC) ambient temperature
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Continuous Duty (S1)
- NEMA dimensions
- Open drip proof
- Service Factor: 1.15
- Stainless steel nameplate
- 1045 carbon steel shaft
- F1 mount (with cast iron ‘C’ Flange)
- Paint: Enamel alkyd resin base
- Color: RAL 5007 (Blue)
- Weg paint plan: 207A
- Drip cover for all vertical motors
- Cast iron frames
- Cast iron endshields and terminal box
- Cooling system with finned rotor
- Regreasable bearings system (frame 254JP and up)
- Degree of protection: IP23

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
254/6JM - 405JM or JP	All	10:1	100:1	Any
See page 7.6 for details				

Optional Features

- Special voltages
- Thermistors, Thermostats or RTD”s (PT100)
- UL Listed fire pump duty

W40 JM & JP Pump Motors - NEMA Premium Efficiency

ODP - Vertical - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.) JM Type	Overall Length "C" Dim. (in.) JP Type
HP	RPM					460V	575V				
7.5	1200	254JM or JP	P.O.A.	P.O.A.	JM007X06DPNPS	9.69	7.75	90.2	231	24.098	26.978
10	1200	256JM or JP	P.O.A.	P.O.A.	JM010X06DPNPS	12.8	10.2	91.7	251	25.831	28.711
15	1800	254JM or JP	$2,818	$2,874	JM015X04DPNPS	18.6	14.9	93.0	220	24.098	26.978
	1200	284JM or JP	P.O.A.	P.O.A.	JM015X06DPNPS	17.7	14.2	91.7	353	26.584	29.464
20	3600	254JM or JP	$3,001	$3,062	JM020X02DPNPS	24.6	19.7	91.0	179	24.098	26.978
	1800	256JM or JP	$3,307	$3,374	JM020X04DPNPS	24.7	19.8	93.0	251	25.831	28.711
	1200	286JM or JP	P.O.A.	P.O.A.	JM020X06DPNPS	24.0	19.2	92.4	388	28.077	30.957
25	3600	256JM or JP	$3,591	$3,662	JM025X02DPNPS	29.8	23.8	91.7	225	25.831	28.711
	1800	284JM or JP	$3,789	$3,865	JM025X04DPNPS	29.9	23.9	93.6	271	26.584	29.464
	1200	324JM or JP	P.O.A.	P.O.A.	JM025X06DPNPS	30.4	24.3	93.0	450	29.147	32.027
30	3600	284JM or JP	$4,474	$4,564	JM030X02DPNPS	34.7	27.8	92.4	333	26.584	29.464
	1800	286JM or JP	$4,400	$4,489	JM030X04DPNPS	35.4	28.3	94.1	357	28.077	30.957
	1200	326JM or JP	P.O.A.	P.O.A.	JM030X06DPNPS	36.0	28.8	93.6	560	30.643	33.523
40	3600	286JM or JP	$5,090	$5,192	JM040X02DPNPS	47.1	37.7	93.0	417	28.077	30.957
	1800	324JM or JP	$5,648	$5,760	JM040X04DPNPS	48.2	38.6	94.1	450	29.147	32.027
	1200	364/5JM or JP	P.O.A.	P.O.A.	JM040X06DPNPSW40	47.1	37.7	94.1	787	32.328	35.208
50	3600	324JM or JP	$6,359	$6,486	JM050X02DPNPS	59.1	47.3	93.6	478	29.147	32.027
	1800	326JM or JP	$6,360	$6,488	JM050X04DPNPS	59.9	47.9	94.5	538	30.643	33.523
	1200	364/5JM or JP	P.O.A.	P.O.A.	JM050X06DPNPSW40	58.1	46.5	94.1	820	32.328	35.208
60	3600	326JM or JP	$7,277	$7,424	JM060X02DPNPS	71.0	56.8	93.6	564	30.643	33.523
	1800	364/5JM or JP	$8,107	$8,268	JM060X04DPNPSW40	69.9	56.0	95.0	785	32.328	35.208
75	3600	364/5JM or JP	$9,898	$10,097	JM075X02DPNPSW40	84.8	67.9	93.6	736	32.328	35.208
	1800	364/5JM or JP	$9,180	$9,363	JM075X04DPNPSW40	85.5	68.4	95.0	811	32.328	35.208
100	3600	364/5JM or JP	$11,627	$11,859	JM100X02DPNPSW40	116.0	92.8	93.6	774	32.328	35.208

Flange: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

* "C" Dimension does not include drip cover. Call 1 877 PAMENSKY for specifications.

W40 JM & JP Pump Motors - NEMA Premium Efficiency

ODP - Horizontal - Purchasing Data

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.) JM Type	Overall Length "C" Dim. (in.) JP Type
HP	RPM					460V	575V				
7.5	1200	254JM or JP	P.O.A.	P.O.A.	JM007X06DPNP	9.69	7.75	90.2	231	22.169	25.049
10	1200	256JM or JP	P.O.A.	P.O.A.	JM010X06DPNP	12.8	10.2	91.7	251	23.902	26.782
15	1800	254JM or JP	$2,623	$2,675	JM015X04DPNP	18.6	14.9	93.0	220	22.169	25.049
	1200	284JM or JP	P.O.A.	P.O.A.	JM015X06DPNP	17.7	14.2	91.7	353	24.261	27.141
20	3600	254JM or JP	$2,842	$2,899	JM020X02DPNP	24.6	19.7	91.0	179	22.169	25.049
	1800	256JM or JP	$3,130	$3,192	JM020X04DPNP	24.7	19.8	93.0	251	23.902	26.782
	1200	286JM or JP	P.O.A.	P.O.A.	JM020X06DPNP	24.0	19.2	92.4	388	25.754	28.634
25	3600	256JM or JP	$3,396	$3,464	JM025X02DPNP	29.8	23.8	91.7	225	23.902	26.782
	1800	284JM or JP	$3,534	$3,605	JM025X04DPNP	29.9	23.9	93.6	271	24.261	27.141
	1200	324JM or JP	P.O.A.	P.O.A.	JM025X06DPNP	30.4	24.3	93.0	450	26.431	29.311
30	3600	284JM or JP	$4,220	$4,304	JM030X02DPNP	34.7	27.8	92.4	333	24.261	27.141
	1800	286JM or JP	$4,144	$4,227	JM030X04DPNP	35.4	28.3	94.1	357	25.754	28.634
	1200	326JM or JP	P.O.A.	P.O.A.	JM030X06DPNP	36.0	28.8	93.6	560	27.927	30.807
40	3600	286JM or JP	$4,835	$4,931	JM040X02DPNP	47.1	37.7	93.0	417	25.754	28.634
	1800	324JM or JP	$5,357	$5,463	JM040X04DPNP	48.2	38.6	94.1	450	26.431	29.311
	1200	364/5JM or JP	P.O.A.	P.O.A.	JM040X06DPNPW40	47.1	37.7	94.1	787	29.270	32.150
50	3600	324JM or JP	$6,068	$6,189	JM050X02DPNP	59.1	47.3	93.6	478	26.431	29.311
	1800	326JM or JP	$6,105	$6,227	JM050X04DPNP	59.9	47.9	94.5	538	27.927	30.807
	1200	364/5JM or JP	P.O.A.	P.O.A.	JM050X06DPNPW40	58.1	46.5	94.1	820	29.270	32.150
60	3600	326JM or JP	$7,005	$7,144	JM060X02DPNP	71.0	56.8	93.6	564	27.927	30.807
	1800	364/5JM or JP	$7,728	$7,883	JM060X04DPNPW40	69.9	56.0	95.0	785	29.270	32.150
75	3600	364/5JM or JP	$9,517	$9,708	JM075X02DPNPW40	84.8	67.9	93.6	736	29.270	32.150
	1800	364/5JM or JP	$8,798	$8,974	JM075X04DPNPW40	85.5	68.4	95.0	811	29.270	32.150
100	3600	364/5JM or JP	$11,245	$11,470	JM100X02DPNPW40	116.0	92.8	93.6	774	29.270	32.150

Flange: For JP Type Replace 'JM' with 'JP'
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W40 JM & JP Pump Motors - NEMA Premium Efficiency

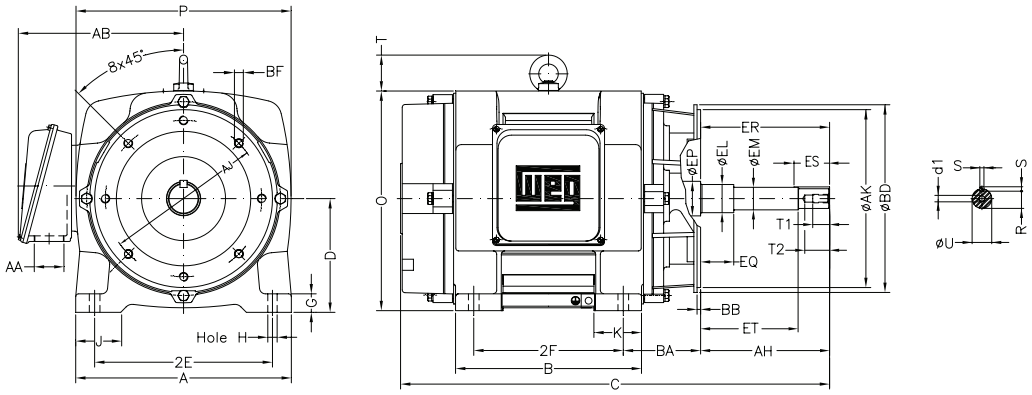
ODP - Horizontal & Vertical - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
7.5	5.5	1175	254JM	19.3	9.63	7.70	6.3	210%	250%	12	231	56	1.15	87.5	88.5	88.5	0.61	0.74	0.81
10	7.5	1175	256JM	25.8	12.9	10.3	6.2	200%	250%	12	251	57	1.15	89.5	90.2	90.2	0.62	0.74	0.81
15	11	1765	254JM	37.5	18.8	15.0	6.0	230%	250%	17	220	59	1.15	89.5	91.0	91.0	0.63	0.75	0.81
		1180	284JM	36.0	18.0	14.4	6.2	190%	230%	12	353	58	1.15	89.5	90.2	90.2	0.72	0.81	0.85
20	15	3540	254JM	48.5	24.3	19.4	5.8	190%	250%	10	179	66	1.15	89.5	90.2	90.2	0.74	0.83	0.86
		1765	256JM	51.0	25.5	20.4	5.6	230%	250%	12	251	60	1.15	90.2	91.0	91.0	0.64	0.75	0.81
		1175	286JM	48.5	24.3	19.4	5.8	220%	230%	18	388	58	1.15	91.0	91.7	91.0	0.73	0.81	0.85
25	18.5	3530	256JM	58.5	29.3	23.4	6.0	200%	250%	10	225	67	1.15	90.2	91.0	91.0	0.76	0.84	0.87
		1765	284JM	60.3	30.1	24.1	6.0	220%	250%	13	271	62	1.15	91.0	91.7	91.7	0.70	0.79	0.84
		1180	324JM	61.8	30.9	24.7	5.9	200%	230%	18	450	60	1.15	91.0	91.7	91.7	0.65	0.77	0.82
30	22	3540	284JM	69.0	34.5	27.6	6.2	200%	270%	12	333	72	1.15	91.0	91.0	91.0	0.80	0.86	0.88
		1770	286JM	71.3	35.6	28.5	6.1	250%	270%	13	357	63	1.15	91.7	92.4	92.4	0.72	0.81	0.84
		1180	326JM	73.8	36.9	29.5	5.8	200%	220%	17	560	60	1.15	91.7	92.4	92.4	0.65	0.76	0.81
40	30	3535	286JM	92.3	46.1	36.9	5.9	190%	260%	16	417	73	1.15	91.7	91.7	91.7	0.81	0.87	0.89
		1775	324JM	98.8	49.4	39.5	5.8	210%	220%	24	450	64	1.15	92.4	93.0	93.0	0.67	0.77	0.82
		1185	364/5JM	94.2	47.1	37.7	6.4	200%	230%	22	787	65	1.15	93.6	94.1	94.1	0.74	0.82	0.85
50	37	3560	324JM	117	58.4	46.7	6.2	220%	240%	28	478	74	1.15	91.0	92.4	92.4	0.75	0.83	0.86
		1770	326JM	121	60.3	48.2	5.6	200%	210%	18	538	65	1.15	92.4	93.0	93.0	0.70	0.80	0.83
		1185	364/5JM	116	58.1	46.5	6.7	220%	240%	15	820	65	1.15	93.6	94.1	94.1	0.74	0.82	0.85
60	45	3555	326JM	141	70.6	56.5	6.0	230%	250%	17	564	75	1.15	92.4	93.0	93.0	0.77	0.84	0.86
		1780	364/5JM	140	69.9	55.9	6.5	200%	240%	19	785	67	1.15	94.5	95.0	95.0	0.73	0.82	0.85
75	55	3560	364/5JM	170	84.8	67.8	6.6	200%	250%	19	736	82	1.15	91.7	93.0	93.6	0.77	0.84	0.87
		1780	364/5JM	171	85.5	68.4	6.8	220%	260%	14	811	67	1.15	94.5	95.0	95.0	0.73	0.82	0.85
100	75	3555	364/5JM	232	116	92.8	6.6	180%	230%	13	774	82	1.15	92.4	93.6	93.6	0.77	0.84	0.87

JM & JP Pump Motors - NEMA Premium Efficiency

ODP - Mechanical Data

Frames 254JM/JP to 364/5JM/JP



JM Type

Frame	MOUNTING				A	B	C	D	NEMA C FLANGE					
	2E	2F	H	BA					AJ	AK	BB	BD	BF TAP	BF NUMBER
254JM	10.000	8.250	0.531	4.500	12.130	10.100	22.169	6.220	7.250	8.500	0.250	8.585	UNC 1/2"x13	4
256JM		10.000				11.732	23.902							
284JM	11.000	9.500		4.750	13.780	11.574	24.261	7.000	11.000	12.500		14.000	UNC 5/8"x11	
286JM		11.000				13.070	25.754							
324JM	12.500	10.500	0.657	5.250	15.160		26.431	8.000				13.189		
326JM		12.000				14.566	27.927							
364/5JM	14.000	11.250/12.250	0.660	0.5880	17.170	15.322	29.270	9.000				14.000		8

Frame	SHAFT END														BEARINGS	
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1	T1	T2	D.E.	N.D.E.
254 JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	1.750	0.250	1.110	2.480	1/2"X13	0.984	1.496	6309-Z-C3	6209-Z-C3
256 JM																
284 JM								2.163							6311-Z-C3	6211-Z-C3
286 JM																
324 JM								2.360							6312-Z-C3	6212-Z-C3
326 JM																
364/5 JM								2.753					1.100	1.500	6314-Z-C3	

JP Type

Frame	MOUNTING				A	B	C	D	NEMA C FLANGE					
	2E	2F	H	BA					AJ	AK	BB	BD	BF TAP	BF NUMBER
254 JP	10.000	8.250	0.531	4.500	12.130	10.100	25.049	6.220	7.250	8.500	0.250	8.585	UNC 1/2"X13	4
256 JP		10.000				11.732	26.782							
284 JP	11.000	9.500		4.750	13.780	11.574	27.141	7.000	11.000	12.500		14.000	UNC 5/8"x11	
286 JP		11.000				13.070	28.634							
324 JP	12.500	10.500	0.657	5.250	15.160		29.311	8.000				14.000		
326 JP		12.000				14.566	30.807							
364/5 JP	14.000	11.250/12.250	0.660	5.880	17.170	15.322	32.150	9.000						8

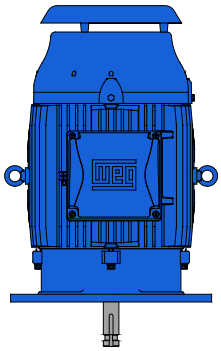
Frame	SHAFT END														BEARINGS	
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1	T1	T2	D.E.	N.D.E.
254 JP	8.130	8.130	2.382	5.886	1.249	1.375	1.750	1.770	0.250	1.110	2.480	1/2"X13	0.984	1.496	6309-Z-C3	6209-Z-C3
256 JP																
284 JP								2.163							6311-Z-C3	6211-Z-C3
286 JP																
324 JP								2.360							6312-Z-C3	6212-Z-C3
326 JP																
364/5 JP					1.624	1.750	2.125	2.753	0.377	1.413			1.100	1.500	6314-C3	

W22 P-Base Motors - NEMA Premium

TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 208-230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing: V'Ring
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6HP
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5HP and up.
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143HP to 215HP
  - 203A - Frames 254HP to 444/5HP
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6HP and up
- Drip Cover



Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143HP - 444/5HP	All	20:1	1000:1	Any
	All	1000:1*		WEG

* Can only be achieved by a WEG VFD running in Sensorless Vector
See page 7.6 for details

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated endbells available from 364/5HP and up
- Degree of protection: IP56, IP65, IP66
- UL Listed fire pump duty
- With feet

W22 P-Base Motors - NEMA Premium

TEFC

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V			
1	1800	143HP	$911	PB000X04NPW22	1.41	1.13	85.5	40.8	13.421
	1200	145HP	$1,107	PB000X06NPW22	1.73	1.38	82.5	52.9	14.397
1.5	3600	143HP	$983	PB001X02NPW22	1.96	1.57	84.0	40.8	13.421
	1800	145HP	$983	PB001X04NPW22	2.02	1.62	86.5	48.5	14.397
	1200	182HP	$1,269	PB001X06NPW22	2.54	2.03	87.5	70.3	15.504
2	3600	145HP	$1,028	PB002X02NPW22	2.56	2.05	85.5	51.8	14.397
	1800	145HP	$1,007	PB002X04NPW22	2.69	2.15	86.5	50.7	14.397
	1200	184HP	$1,372	PB002X06NPW22	3.23	2.58	88.5	87.5	16.504
3	3600	182HP	$1,237	PB003X02NPW22	3.63	2.90	86.5	88.2	15.504
	1800	182HP	$1,224	PB003X04NPW22	3.91	3.13	89.5	90.4	15.504
	1200	213HP	P.O.A	PB003X06NPW22	4.41	3.53	89.5	121	18.630
5	3600	184HP	$1,477	PB005X02NPW22	5.90	4.72	88.5	88.2	16.504
	1800	184HP	$1,458	PB005X04NPW22	6.45	5.16	89.5	94.8	16.504
	1200	215HP	$2,329	PB005X06NPW22	6.83	5.46	89.5	162	20.126
7.5	3600	213HP	$2,091	PB007X02NPW22	8.76	7.01	89.5	139	18.630
	1800	213HP	$1,958	PB007X04NPW22	9.18	7.34	91.7	154	18.630
	1200	254HP	$3,016	PB007X06NPW22	9.48	7.58	91.0	262	23.723
10	3600	215HP	$2,561	PB010X02NPW22	11.6	9.28	90.2	163	20.126
	1800	215HP	$2,471	PB010X04NPW22	12.4	9.92	91.7	172	20.126
	1200	256HP	$3,928	PB010X06NPW22	12.9	10.3	91.0	289	25.455
15	3600	254HP	$3,350	PB015X02NPW22	17.2	13.8	91.0	236	23.723
	1800	254HP	$3,162	PB015X04NPW22	18.0	14.4	92.4	251	23.723
	1200	284HP	P.O.A	PB015X06NPW22HP	17.9	14.3	91.7	379	26.350
	1200	284HPH	P.O.A	PB015X06NPW22HPH	17.9	14.3	91.7	379	28.100
20	3600	256HP	$3,575	PB020X02NPW22	23.2	18.6	91.0	269	25.455
	1800	256HP	$3,452	PB020X04NPW22	24.1	19.3	93.0	291	25.455
	1200	286HP	P.O.A	PB020X06NPW22HP	24.2	19.4	91.7	426	27.845
	1200	286HPH	P.O.A	PB020X06NPW22HPH	24.2	19.4	91.7	426	29.595
25	3600	284HP	$4,895	PB025X02NPW22HP	28.5	22.8	91.7	362	26.350
	3600	284HPH	$4,895	PB025X02NPW22HPH	28.5	22.8	91.7	362	28.100
	1800	284HP	$4,863	PB025X04NPW22HP	29.5	23.6	93.6	388	26.350
	1800	284HPH	$4,863	PB025X04NPW22HPH	29.5	23.6	93.6	388	28.100
	1200	324HP	P.O.A	PB025X06NPW22	30.4	24.3	93.0	560	30.403
30	3600	286HP	$5,577	PB030X02NPW22HP	33.8	27.0	91.7	392	27.845
	3600	286HPH	$5,577	PB030X02NPW22HPH	33.8	27.0	91.7	392	29.595
	1800	286HP	$5,179	PB030X04NPW22HP	35.1	28.1	93.6	437	27.845
	1800	286HPH	$5,179	PB030X04NPW22HPH	35.1	28.1	93.6	437	29.595
	1200	326HP	P.O.A	PB030X06NPW22	35.8	28.6	93.0	628	31.897
40	3600	324HP	$7,098	PB040X02NPW22	45.8	36.6	92.4	547	30.403
	1800	324HP	$6,798	PB040X04NPW22	47.1	37.7	94.1	492	30.403
	1200	364/5HP	P.O.A	PB040X06NPW22	46.5	37.2	94.1	833	34.830
50	3600	326HP	$8,955	PB050X02NPW22	56.1	44.9	93.0	584	31.897
	1800	326HP	$8,602	PB050X04NPW22	59.2	47.4	94.5	536	31.897
	1200	364/5HP	$15,020	PB050X06NPW22	57.4	45.9	94.1	869	34.830
60	3600	364/5HP	P.O.A	PB060X02NPW22	67.0	53.6	93.6	825	34.830
	1800	364/5HP	P.O.A	PB060X04NPW22	68.3	54.6	95.0	869	34.830
	1200	404/5HP	P.O.A	PB060X06NPW22HP	69.5	55.6	94.5	1036	38.230
	1200	404/5HPH	P.O.A	PB060X06NPW22HPH	69.5	55.6	94.5	1036	38.230
75	3600	364/5HP	P.O.A	PB075X02NPW22	81.9	65.5	93.6	847	34.830
	1800	364/5HP	P.O.A	PB075X04NPW22	84.1	67.3	95.4	919	34.830
	1200	404/5HP	P.O.A	PB075X06NPW22HP	84.9	67.9	94.5	1089	38.230
	1200	404/5HPH	P.O.A	PB075X06NPW22HPH	84.9	67.9	94.5	1089	38.230
100	3600	404/5HP	P.O.A	PB100X02NPW22HP	110	88.0	94.1	1045	38.230
	3600	404/5HPH	P.O.A	PB100X02NPW22HPH	110	88.0	94.1	1045	38.230
	1800	404/5HP	P.O.A	PB100X04NPW22HP	111	88.8	95.4	1140	38.230
	1800	404/5HPH	P.O.A	PB100X04NPW22HPH	111	88.8	95.4	1140	38.230
	1200	444/5HP	P.O.A	PB100X06NPW22	121	96.8	95.0	1577	41.350
125	3600	444/5HP	P.O.A	PB125X02NPW22	134	107	95.0	1599	41.350
	1800	444/5HP	P.O.A	PB125X04NPW22	139	111	95.4	1590	41.350
	1200	444/5HP	P.O.A	PB125X06NPW22	143	114	95.0	1751	41.350
150	3600	444/5HP	P.O.A	PB150X02NPW22	161	129	95.0	1709	41.350
	1800	444/5HP	P.O.A	PB150X04NPW22	170	136	95.8	1676	41.350

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

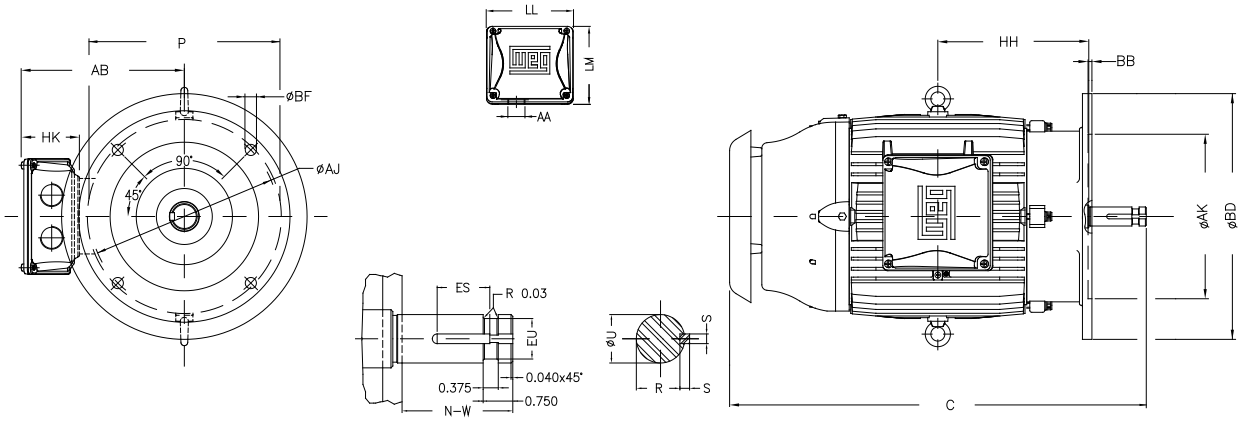
W22 P-Base Motors - NEMA Premium

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	1760	143HP	2.82	1.41	1.13	8.4	280%	350%	18	40.8	51	1.25	80.0	84.0	85.5	0.60	0.70	0.78
		1150	145HP	3.46	1.73	1.38	6.2	300%	300%	28	52.9	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
1.5	1.1	3490	143HP	3.92	1.96	1.57	8.9	350%	380%	21	40.8	68	1.25	81.5	84.0	84.0	0.70	0.80	0.84
		1755	145HP	4.04	2.02	1.62	8.4	250%	340%	14	48.5	51	1.25	82.5	85.5	86.5	0.60	0.70	0.79
		1170	182HP	5.08	2.54	2.03	7.8	320%	400%	16	70.3	52	1.25	84.0	86.5	87.5	0.45	0.54	0.62
2	1.5	3475	145HP	5.12	2.56	2.05	8.9	350%	380%	17	51.8	68	1.25	82.5	85.5	85.5	0.71	0.80	0.86
		1750	145HP	5.38	2.69	2.15	8.0	260%	300%	11	50.7	51	1.25	85.5	86.5	86.5	0.62	0.74	0.81
		1165	184HP	6.46	3.23	2.58	7.5	300%	300%	31	87.5	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
3	2.2	3510	182HP	7.26	3.63	2.90	8.3	240%	380%	41	88.2	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182HP	7.82	3.91	3.13	8.1	230%	340%	23	90.4	56	1.25	87.5	88.5	89.5	0.61	0.73	0.79
		1170	213HP	8.82	4.41	3.53	7.0	200%	280%	58	121	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
5	3.7	3500	184HP	11.8	5.90	4.72	7.6	230%	350%	25	88.2	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1755	184HP	12.9	6.45	5.16	7.2	230%	320%	15	94.8	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1170	215HP	13.7	6.83	5.46	6.8	170%	260%	57	162	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
7.5	5.5	3520	213HP	17.5	8.76	7.01	7.2	210%	300%	27	139	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1765	213HP	18.4	9.18	7.34	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.66	0.76	0.82
		1175	254HP	19.0	9.48	7.58	6.8	250%	300%	30	262	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
10	7.5	3515	215HP	23.2	11.6	9.28	6.9	210%	290%	24	163	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1765	215HP	24.8	12.4	9.92	6.4	200%	300%	17	172	58	1.25	91.0	91.7	91.7	0.66	0.77	0.83
		1175	256HP	25.8	12.9	10.3	6.5	230%	280%	26	289	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
15	11	3530	254HP	34.4	17.2	13.8	6.7	220%	270%	25	236	72	1.25	89.5	91.0	91.0	0.77	0.85	0.88
		1765	254HP	36.0	18.0	14.4	6.4	230%	270%	17	251	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284HP	35.8	17.9	14.3	6.4	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
		1175	284HPH	35.8	17.9	14.3	6.4	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
20	15	3520	256HP	46.4	23.2	18.6	6.1	200%	240%	21	269	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1765	256HP	48.2	24.1	19.3	6.5	230%	270%	15	291	64	1.25	91.7	92.4	93.0	0.68	0.79	0.84
		1175	286HP	48.4	24.2	19.4	6.2	230%	260%	16	426	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
		1175	286HPH	48.4	24.2	19.4	6.2	230%	260%	16	426	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
25	18.5	3535	284HP	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		3535	284HPH	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1765	284HP	59.0	29.5	23.6	6.2	240%	270%	24	388	64	1.25	92.4	93.0	93.6	0.70	0.80	0.84
		1765	284HPH	59.0	29.5	23.6	6.2	240%	270%	24	388	64	1.25	92.4	93.0	93.6	0.70	0.80	0.84
		1180	324HP	60.8	30.4	24.3	6.2	210%	260%	26	560	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
30	22	3535	286HP	67.6	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		3535	286HPH	67.6	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1765	286HP	70.2	35.1	28.1	6.1	240%	240%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1765	286HPH	70.2	35.1	28.1	6.1	240%	240%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1180	326HP	71.6	35.8	28.6	6.2	230%	260%	21	628	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
40	30	3555	324HP	91.6	45.8	36.6	6.3	230%	240%	22	547	78	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1770	324HP	94.2	47.1	37.7	6.1	220%	240%	20	492	66	1.25	93.6	94.1	94.1	0.72	0.80	0.85
		1185	364/5HP	93.0	46.5	37.2	6.4	200%	240%	21	833	66	1.25	93.6	93.6	94.1	0.73	0.82	0.86
50	37	3550	326HP	112	56.1	44.9	6.2	220%	230%	23	584	78	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1775	326HP	118	59.2	47.4	6.2	230%	270%	15	536	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5HP	115	57.4	45.9	6.4	200%	240%	18	869	66	1.25	93.6	94.1	94.1	0.74	0.83	0.86
60	45	3560	364/5HP	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1775	364/5HP	137	68.3	54.6	6.6	240%	260%	15	869	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
		1185	404/5HP	139	69.5	55.6	6.4	200%	230%	20	1036	68	1.25	94.1	94.5	94.5	0.74	0.82	0.86
		1185	404/5HPH	139	69.5	55.6	6.4	200%	230%	20	1036	68	1.25	94.1	94.5	94.5	0.74	0.82	0.86
75	55	3555	364/5HP	164	81.9	65.5	6.7	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1775	364/5HP	168	84.1	67.3	6.4	240%	260%	14	919	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86
		1180	404/5HP	170	84.9	67.9	6.4	200%	230%	17	1089	68	1.25	94.1	94.5	94.5	0.74	0.83	0.86
		1180	404/5HPH	170	84.9	67.9	6.4	200%	230%	17	1089	68	1.25	94.1	94.5	94.5	0.74	0.83	0.86
100	75	3545	404/5HP	220	110	88.0	6.5	200%	240%	14	1045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		3545	404/5HPH	220	110	88.0	6.5	200%	240%	14	1045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		1775	404/5HP	222	111	88.8	7.3	240%	260%	13	1140	68	1.25	95.0	95.0	95.4	0.77	0.84	0.88
		1775	404/5HPH	222	111	88.8	7.3	240%	260%	13	1140	68	1.25	95.0	95.0	95.4	0.77	0.84	0.88
		1185	444/5HP	242	121	96.8	6.2	220%	260%	20	1577	69	1.25	94.5	95.0	95.0	0.68	0.78	0.82
125	90	3570	444/5HP	268	134	107	6.6	200%	250%	29	1599	81	1.15	93.6	94.5	95.0	0.82	0.87	0.89
		1780	444/5HP	278	139	111	6.5	200%	230%	27	1590	73	1.15	95.0	95.4	95.4	0.74	0.82	0.85
		1185	444/5HP	286	143	114	6.4	210%	240%	19	1751	69	1.15	95.0	95.4	95.0	0.70	0.79	0.83
150	110	3570	444/5HP	322	161	129	6.5	180%	240%	22	1709	81	1.15	94.1	95.0	95.0	0.83	0.88	0.90
		1780	444/5HP	340	170	136	6.6	200%	250%	27	1676	73	1.15	95.4	95.8	95.8	0.74	0.82	0.85

W22 P-Base Motors - NEMA Premium

TEFC - Mechanical Data



NEMA FRAMES	# of Poles	P	AB	AH	U	N-W	ES	EU	S	R	HH	HK	C	LL	LM	AA	Bearing		Flange				
																	D.E.	N.D.E	AJ	AK	BD	BF	BB
143HP	2	7.047	6.260	2.750	0.875	2.874	1.250	0.687	0.187	0.765	4.250	2.638	13.421	4.528	4.094	NPT 3/4"	6307 ZZ	6204 ZZ	9.125	8.250	10.000	0.433	0.196
143HP	4/6/8																						
145HP	2										4.750		14.397										
145HP	4/6/8																						
182HP	2	8.740	7.565	2.750	1.125	2.953	1.250	0.875	0.250	0.984	5.000	3.150	15.504	5.512	5.236	NPT 1"	6308 ZZ	6206 ZZ					
182HP	4/6/8																						
184HP	2										5.500		16.504										
184HP	4/6/8																						
213HP	2	10.630	8.583								6.250		18.630				6309 ZZ	6207 ZZ					
213HP	4/6/8																						
215HP	2										7.000		20.126										
215HP	4/6/8																						
254HP	2	12.283	10.483								8.376	3.976	23.723	7.815	7.480	NPT 1 1/2"	6311 C3	6209 C3					
254HP	4/6/8																						
256HP	2										9.250		25.455										
256HP	4/6/8																						
284HP	2	14.094	11.073								9.500		26.350				6312 C3	6211 C3					
284HP	4/6/8																						
284HPH	2			4.500	1.625	4.764	3.150	1.250	0.375	1.415			28.100				6314 C3		14.750	13.500	16.500	0.687	0.250
284HPH	4/6/8																						
286HP	2			2.750	1.125	2.953	1.250	0.875	0.250	0.984	10.250		27.845				6312 C3		9.125	8.250	10.000	0.433	0.196
286HP	4/6/8																						
286HPH	2			4.500	1.625	4.764	3.150	1.250	0.375	1.415			29.595				6314 C3		14.750	13.500	16.500	0.687	0.250
286HPH	4/6/8																						
324HP	2	15.591	12.575								10.500	4.705	30.403	9.055	8.661	NPT 2"		6212 C3					
324HP	4/6/8																						
326HP	2										11.250		31.897										
326HP	4/6/8																						
364/5HP	2	17.794	16.016								12.362	6.024	34.830	10.591	11.267	NPT 3"	6316 C3	6314 C3					
364/5HP	4/6/8																						
404/5HP	2	19.134									14.213		38.230										
404/5HP	4/6/8																						
404/5HPH	2				2.125	4.748		1.750	0.500	1.844													
404/5HPH	4/6/8																						
444/5HP	2	23.583	18.570								15.748	5.970	41.350	12.362	12.283	2xNPT 3"							
444/5HP	4/6/8																6319 C3	6316 C3					

In-Line Extra Thrust Motors - LP and LPH - Nema Premium

TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase 2, 4, 6 and 8 poles - 60Hz
- Voltage: 208-230/460V or 575V
- Die cast aluminum squirrel cage rotor
- Totally Enclosed Fan Cooled (IP55)
- Insulation Class “F”
- 104°F (40°C) ambient temperature
- Temperature rise: Class ‘B’ (80°C)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Run out according to API 610, section III (3.1.8) 0.025 mm
- Concentricity according to API 610, section III (3.1.8) 0.1 mm
- Perpendicularity according to API 610, section III (3.1.8) 0.025 mm
- Axial float according to API 610, section III (3.1.8) 0.125 mm
- Dual 7300 series bearings on N.D.E. supports axial thrust
- D.E. Ball Bearings with normal clearance
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- Usual mounting: V1 footless
- Cast iron frame
- Aluminum Canopy
- Three eyebolt (frame 254LP and up)
- Automatic drain plugs
- Service factor: 1.25 up to 100HP
- 1.15 above 100HP
- Paint: Enamel alkyd resin base
- Color: Blue - RAL 5009
- WEG paint plan: 207A

Class I, Div 2, Groups B,C & D
Class II, Div 2, Groups F
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
182LP - 444/5LP	All	12:1	1000:1	Any
		100:1*		WEG
*Can ony be achieved with a WEG VFD running in Sensorless Vector See page 7.6 for details				

API 610 Compliant

Optional Features

- Special voltages
- Painting Plans
- Thermistors, Thermostats or RTD’s (PT100)
- Space heaters
- Auxiliary terminal box
- Class “H” insulation
- Special grease for high or low temperatures
- Degree of Protection: IP56
- NEMA Premium Efficiency

In-Line Extra Thrust Motors - LP and LPH

NEMA Premuim

TEFC - Purchasing Data

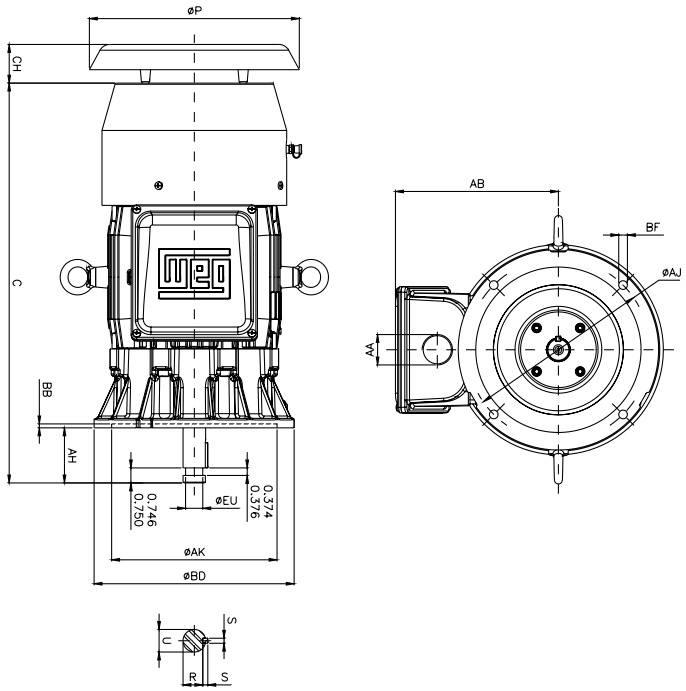
Rated Output		NEMA Frame	List Price	Part Number	Overall Length "C" Dim. (in.)
HP	RPM				
1	900	182LP	$2,829	LP000X08NP	19.350
1.5	1200	182LP	$2,753	LP001X06NP	19.350
	900	184LP	$3,037	LP001X08NP	20.350
2	1200	184LP	$2,962	LP002X06NP	20.350
	900	213LP	$3,538	LP002X08NP	21.670
3	3600	182LP	$2,746	LP003X02NP	19.350
	1800	182LP	$2,872	LP003X04NP	19.350
	1200	213LP	$3,622	LP003X06NP	21.670
	900	215LP	$3,837	LP003X08NP	23.160
5	3600	184LP	$3,043	LP005X02NP	20.350
	1800	184LP	$2,894	LP005X04NP	20.350
	1200	215LP	$3,693	LP005X06NP	23.160
	900	254LP	$4,972	LP005X08NP	26.710
7.5	3600	213LP	$3,667	LP007X02NP	21.670
	1800	213LP	$3,582	LP007X04NP	21.670
	1200	254LP	$4,666	LP007X06NP	26.710
	900	256LP	$5,198	LP007X08NP	28.440
10	3600	215LP	$3,826	LP010X02NP	23.160
	1800	215LP	$4,031	LP010X04NP	23.160
	1200	256LP	$4,939	LP010X06NP	28.440
	900	284LP	$5,599	LP010X08NP	29.410
15	3600	254LP	$4,623	LP015X02NP	26.710
	1800	254LP	$4,820	LP015X04NP	26.710
	1200	284LP	$5,983	LP015X06NP	29.410
	900	286LP	$6,866	LP015X08NP	30.910
20	3600	256LP	$5,925	LP020X02NP	28.440
	1800	256LP	$5,779	LP020X04NP	28.440
	1200	286LP	$7,398	LP020X06NP	30.910
	900	324LP	$8,126	LP020X08NP	32.320
25	3600	284LP	$6,691	LP025X02NP	29.410
	1800	284LP	$6,293	LP025X04NP	29.410
	1200	324LP	$8,292	LP025X06NP	32.320
	900	326LP	$9,688	LP025X08NP	33.820
30	3600	286LP	$6,874	LP030X02NP	30.910
	1800	286LP	$7,223	LP030X04NP	30.910
	1200	326LP	$9,766	LP030X06NP	33.820
	900	364/5LP	$13,517	LP030X08NP	35.930
40	3600	324LP	$8,829	LP040X02NP	32.320
	1800	324LP	$8,467	LP040X04NP	32.320
	1200	364/5LP	$13,507	LP040X06NP	35.930
	900	364/5LP	$13,884	LP040X08NP	35.930
50	3600	326LP	$10,015	LP050X02NP	33.820
	1800	326LP	$10,157	LP050X04NP	33.820
	1200	364/5LP	$13,981	LP050X06NP	35.930
	900	404/5LP	$18,023	LP050X08NP	38.920
60	3600	364/5LP	$13,381	LP060X02NP	35.930
	1800	364/5LP	$14,702	LP060X04NP	35.930
	1200	404/5LP	$18,863	LP060X06NP	38.920
	900	404/5LP	$19,692	LP060X08NP	38.920
75	3600	364/5LP	$15,137	LP075X02NP	35.930
	1800	364/5LP	$15,625	LP075X04NP	35.930
	1200	404/5LP	$19,606	LP075X06NP	38.920
	900	444/5LP	$23,955	LP075X08NP	41.410
100	3600	404/5LP	$17,846	LP100X02NP	38.920
	1800	404/5LP	$20,143	LP100X04NP	38.920
	1200	444/5LP	$24,287	LP100X06NP	41.410
	900	444/5LP	$26,755	LP100X08NP	41.410
125	3600	444/5LP	$25,647	LP125X02NP	41.410
	1800	444/5LP	$24,894	LP125X04NP	41.410
	1200	444/5LP	$26,477	LP125X06NP	41.410
150	3600	444/5LP	$26,738	LP150X02NP	41.410
	1800	444/5LP	$26,993	LP150X04NP	41.410

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Electrical Data is available upon request

In-Line Extra Thrust Motors - LP and LPH

TEFC - Mechanical Data



NEMA FRAMES	AH	AK	AJ	BD	BB	BF	EU	ES	U	S	R	P	AB	C	CH	AA	BEARINGS	
																	D.E.	N.D.E.
182 LP	2.750	8.250	9.125	10.000	0.196	0.440	0.875	1.280	1.125	0.250	0.984	10.472	8.228	19.350	1.929	NPT1"	6206	2x7306
184 LP														20.354				
213 LP							1.250		1.625	0.375	1.406	12.165	9.331	21.665			6309	
215 LP														23.161				
254 LP												13.071	10.000	26.705	2.323	NPT1.0.5"		2x7309
256 LP														28.437				
284 LP	4.500	13.500	14.750	16.500	0.250	0.687	1.750	3.150	2.125	0.500	1.845	14.961	10.787	29.409	2.716		6212	2x7310
286 LP														30.906				
324 LP												17.087	11.732	32.323	3.189	NPT2"		
326 LP														33.819				
364/5 LP												21.417	16.693	35.925	3.583	NPT3"	6314	2x7311
404/5 LP - 2P														38.917				2x7311
404/5 LP																		2x7315
444/5 LP - 2P												26.850	19.843	41.909		2xNPT3"		2x7311
444/5 LP																		2x7315

W22 Oil Well Pumping Motors - Triple Rated
TEFC

Standard Features

- Three-phase 6 pole - 60Hz
- Voltage: 460V
- Triple rated
- High starting and breakdown torque
  NEMA Design 'D' 5 - 8% slip
- F2 Mount
- Die cast aluminum squirrel cage rotor
- Sealing:
  - V'Ring sealing up to frame 324/6T.
  - WSeal® (double lipped V'Ring with a metallic cap) sealing on both endshields from frame 364/5T up to 504/5T
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T
- 4140 for frame 404/5T
- Class "F" insulation for all frames. Temperature rise limited to Class "B" (80K)
- Insulation System:
  - Dip and Bake Insulation system with class "H" resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class "H" resin for frame 364/5T and up.
- Service Factor:
  - 1.15
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A
- Color: RAL 7022 - Grey
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T and up
- All frames have dual mounting

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
254/6T - 444/5T	All	20:1	1000:1	Any
	All	1000:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

- 50 Hz
- Special voltages
- 4 poles
- Special paint
- Thermistors, Thermostats or RTD's (PT100)
- Space heaters
- Auxiliary terminal box
- Class "H" insulation
- Special grease for high or low temperatures
- F1 mount
- Degree of protection: IP56, IP65, IP66

W22 Oil Well Pumping Motors - Triple Rated

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current	Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V			
10 - 7.5 - 5	1200	254/6T	$2,848	0T010406W22	13.6 - 10.3 - 6.70	82.5 - 80.0 - 81.5	243	24.945
15 - 10 - 7.5	1200	284/6T	$3,726	0T015406W22	18.3 - 12.5 - 9.30	85.0 - 84.0 - 82.5	397	27.929
20 - 15 - 10	1200	284/6T	$4,530	0T020406W22	25.2 - 18.6 - 12.6	84.0 - 82.5 - 84.0	448	27.929
25 - 20 - 15	1200	324/6T	$5,911	0T025406W22	30.2 - 24.7 - 18.1	87.5 - 85.5 - 85.5	562	31.116
30 - 25 - 20	1200	324/6T	$6,876	0T030406W22	35.5 - 30.2 - 24.9	88.5 - 85.5 - 84.0	601	31.116
40 - 30 - 25	1200	364/5T	$8,985	0T040406W22	50.1 - 36.7 - 31.4	88.5 - 85.5 - 84.0	816	34.251
50 - 40 - 30	1200	404/5T	$11,140	0T050406W22	59.0 - 50.0 - 37.4	89.5 - 85.5 - 84.0	1,065	39.730
60 - 50 - 40	1200	404/5T	P.O.A	0T060406W22405T	76.0 - 61.7 - 50.0	88.5 - 86.5 - 85.5	1,205	39.730
	1200	444/5T	$17,659	0T060406W22	73.4 - 61.0 - 50.4	88.5 - 86.5 - 84.0	1,435	45.193
75 - 60 - 50	1200	444/5T	$23,634	0T075406W22	87.6 - 71.7 - 62.1	88.5 - 87.5 - 84.0	1,551	45.193
100 - 75 - 60	1200	444/5T	$27,634	0T100406W22	120 - 89.7 - 72.5	90.2 - 88.5 - 87.5	1,863	45.193

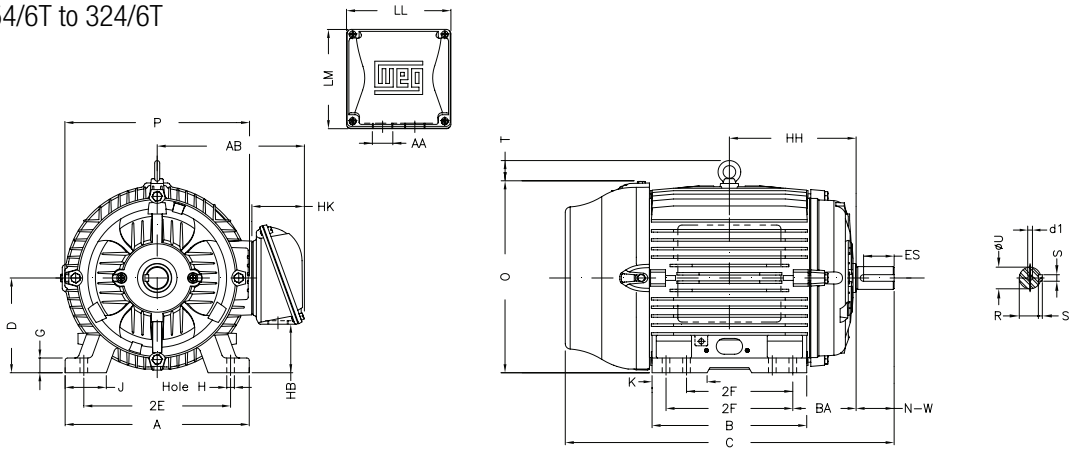
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A) 460V	Locked rotor current (Il/In)	Locked rotor torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)	Power factor
HP	kW									100%	100%
10 - 7.5 - 5	7.5 - 5.5 - 3.7	1125 - 1115 - 1120	254/6T	13.6 - 10.3 - 6.70	6.4 - 5.3 - 4.8	300% - 210% - 170%	12 - 25 - 40	243	1.15	82.5 - 80.0 - 81.5	0.84 - 0.84 - 0.85
15 - 10 - 7.5	11 - 7.5 - 5.5	1115 - 1110 - 1100	284/6T	18.3 - 12.5 - 9.30	6.3 - 5.8 - 5.0	310% - 260% - 210%	18 - 40 - 50	397	1.15	85.0 - 84.0 - 82.5	0.89 - 0.90 - 0.90
20 - 15 - 10	15 - 11 - 7.5	1105 - 1095 - 1110	284/6T	25.2 - 18.6 - 12.6	6.7 - --- - 5.3	310% - 240% - 240%	13 - 25 - 40	448	1.15	84.0 - 82.5 - 84.0	0.89 - 0.90 - 0.89
25 - 20 - 15	18.5 - 15 - 11	1125 - 1110 - 1105	324/6T	30.2 - 24.7 - 18.1	6.6 - 5.3 - 4.7	290% - 210% - 180%	25 - 40 - 50	562	1.15	87.5 - 85.5 - 85.5	0.88 - 0.89 - 0.89
30 - 25 - 20	22 - 18.5 - 15	1130 - 1110 - 1090	324/6T	35.5 - 30.2 - 24.9	6.9 - 5.2 - 4.3	300% - 210% - 170%	15 - 40 - 50	601	1.15	88.5 - 85.5 - 84.0	0.88 - 0.90 - 0.90
40 - 30 - 25	30 - 22 - 18.5	1155 - 1150 - 1140	364/5T	50.1 - 36.7 - 31.4	7.6 - 5.2 - 4.1	300% - 230% - 170%	25 - 40 - 50	816	1.15	88.5 - 85.5 - 84.0	0.85 - 0.88 - 0.88
50 - 40 - 30	37 - 30 - 22	1135 - 1120 - 1110	404/5T	59.0 - 50.0 - 37.4	6.8 - 4.9 - 4.2	310% - 230% - 190%	20 - 40 - 50	1,065	1.15	89.5 - 85.5 - 84.0	0.88 - 0.88 - 0.88
60 - 50 - 40	45 - 37 - 30	1125 - 1115 - 1095	404/5T	76.0 - 61.7 - 50.0	7.5 - 6.4 - 5.3	330% - 230% - 170%	15 - 40 - 60	1,205	1.00	88.5 - 86.5 - 85.5	0.84 - 0.87 - 0.88
		1135 - 1120 - 1100	444/5T	73.4 - 61.0 - 50.4	6.3 - 5.0 - 4.0	290% - 210% - 160%	20 - 40 - 50	1,435	1.15	88.5 - 86.5 - 84.0	0.87 - 0.88 - 0.89
75 - 60 - 50	55 - 45 - 37	1135 - 1120 - 1100	444/5T	87.6 - 71.7 - 62.1	6.9 - 5.5 - 4.2	300% - 220% - 160%	15 - 30 - 50	1,551	1.15	88.5 - 87.5 - 84.0	0.89 - 0.90 - 0.89
100 - 75 - 60	75 - 55 - 45	1135 - 1130 - 1110	444/5T	120 - 89.7 - 72.5	6.8 - 6.0 - 5.0	300% - 250% - 200%	26 - 30 - 50	1,863	1.15	90.2 - 88.5 - 87.5	0.87 - 0.87 - 0.89

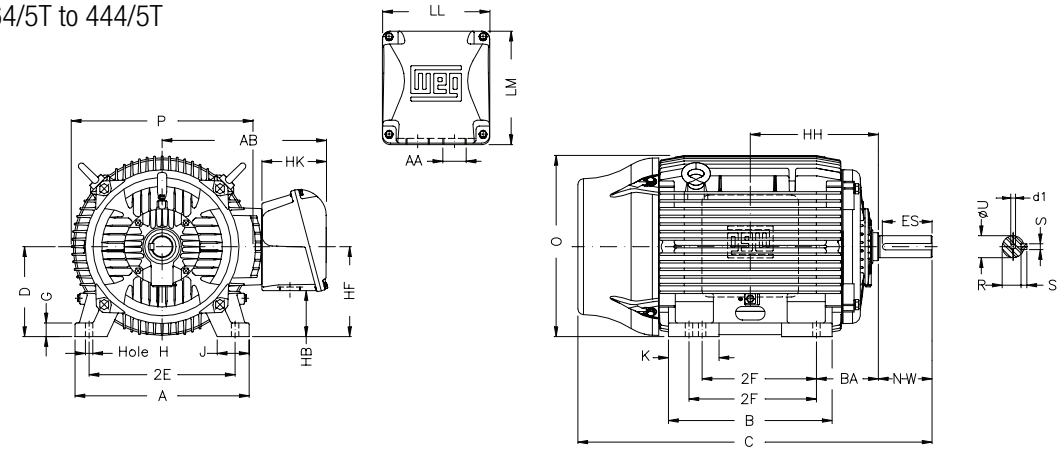
W22 Oil Well Pumping Motors - Triple Rated

TEFC - Mechanical Data

Frames 254/6T to 324/6T



Frames 364/5T to 444/5T



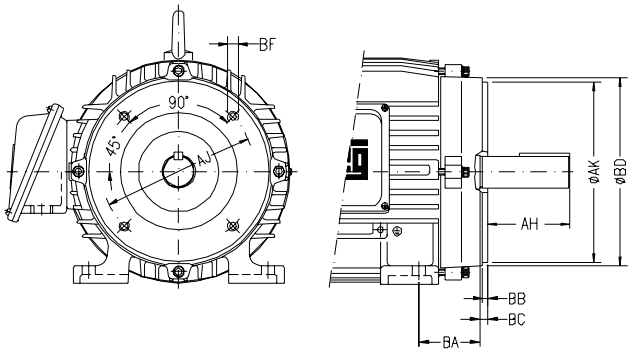
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
254/6T	10.000	10.000	0.531	4.250	12.126	11.732	24.945	6.250	0.827	2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6T	11.000	11.000		4.750	13.780	13.071	27.929	7.000	1.023	3.110	14.067	2.874	14.173		0.500	1.594	3.149	4.622	1.875
324/6T	12.500	12.000	0.657	5.250	15.157	14.567	31.116	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.844	3.937	5.250	2.125
364/5T	14.016	11.260 12.244	0.660	5.875	17.165	16.220	34.251	9.000	1.480	3.150	17.716	4.921	17.914	-	0.625	2.019	4.330	5.874	2.375
404/5T	15.984	12.244 13.740	0.810	6.625	19.921	18.386	39.730	10.000	1.811	3.937	19.566	5.669	19.134		0.750	2.449	5.512	7.250	2.875
444/5T	18.000	14.500 16.500		7.500	21.929	20.315	45.193	11.000	1.630		22.795	5.866	23.583		0.875	2.880	7.087	8.500	3.375

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
254/6T	10.394	3.061	6.565	-	9.250	3.937	7.795	7.402	NPT1 1/2"	A 4	6309 C3	6209 C3
284/6T	10.984	3.535	7.000		10.250						6311 C3	6211 C3
324/6T	12.480	4.811	8.708		11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
364/5T	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"	UNC 3/4"-10	6314 C3	6314 C3
404/5T		5.040			14.213							
444/5T	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6319 C3	6316 C3

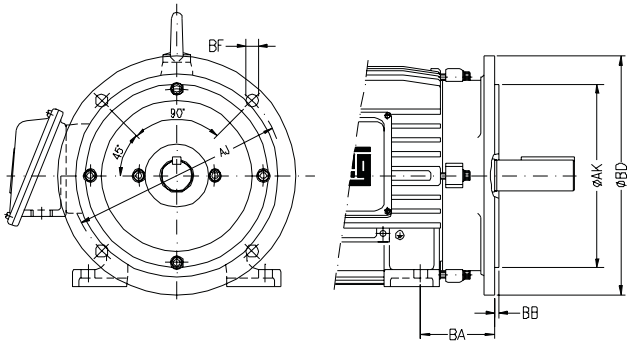
W22 Oil Well Pumping Motors - Triple Rated

TEFC - Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
254/6TC	4.250	7.250	8.500	8.875	4	UNC 1/2"x13	0.250	0.250	3.750
284/6TC	4.750	9.000	10.500	11.031					4.375
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
364/5TC	5.875			15.551	8				5.625
404/5TC	6.625								7.000
444/5TC	7.500	14.000	16.000	17.913					8.250



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
254/6TD	4.250	12.500	11.000	14.000	4	0.828	0.203
284/6TD	4.750						
324/6TD	5.250	16.000	14.000	18.000			
364/5TD	5.875			17.716			
404/5TD	6.625	20.000	18.000	22.000	8		
444/5TD	7.500			21.653			



W22 NEMA Brake Motors - NEMA Premium

TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 208-230/460V, 575V
- Brake power supply: 220/230/240/460/575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing (Drive End):
  - V’Ring sealing up to frame 324/6T.
  - WSeal® (double lipped V’Ring with a metallic cap) for frame 364/5T and 404/5T.
- Sealing (Non Drive End):
  - Lip Seal
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T and all 2 pole motors.
- 4140 for 404/5T in 4, 6 and 8 pole motors.
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class “H” resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 364/5T and 404/5T.
- NEMA design “B”
- Service Factor: 1.25
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 404/5T
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T and up
- All frames have dual mounting
- Normally closed brake
- Manual brake release up to frame 324/6T

NEMA Premium

SPIKE RESISTANT WISE WIRE

INVERTER DUTY

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 404/5T	All	20:1	1000:1	Any
	All	1000:1*		WEG

* Can only be achieved by a WEG VFD running in Sensorless Vector
See page 7.6 for details

Optional Features

- 50Hz
- Special voltages
- Special brake power supply voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Microswitch to monitor the air gap or brake opening (from frame 182T and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- No feet

Super Premium Efficiency available upon request

W22 NEMA Brake Motors - NEMA Premium

TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Brake	
HP	RPM						460V	575V			Torque (ft.lb)	Size
1	3600	143/5T	$1,218	$1,328	$1,452	BM000X02NPW22	1.43	1.14	78.5	41.9	12	10
	1800	143/5T	$1,301	$1,410	$1,535	BM000X04NPW22	1.41	1.13	85.5	46.3	12	10
	1200	143/5T	$1,684	$1,793	$1,918	BM000X06NPW22	1.73	1.38	82.5	58.4	12	10
	900	182/4T	$2,003	$2,128	$2,261	BM000X08NPW22	2.30	1.84	78.5	108	44	14
1.5	3600	143/5T	$1,338	$1,447	$1,572	BM001X02NPW22	1.96	1.57	84.0	46.3	12	10
	1800	143/5T	$1,387	$1,496	$1,620	BM001X04NPW22	2.02	1.62	86.5	54	12	10
	1200	182/4T	$1,935	$2,060	$2,193	BM001X06NPW22	2.54	2.03	87.5	83.6	44	14
	900	182/4T	$2,139	$2,264	$2,397	BM001X08NPW22	2.70	2.16	82.5	124	44	14
2	3600	143/5T	$1,397	$1,507	$1,631	BM002X02NPW22	2.56	2.05	85.5	57.3	12	10
	1800	143/5T	$1,447	$1,557	$1,681	BM002X04NPW22	2.69	2.15	86.5	56.2	12	10
	1200	182/4T	$2,185	$2,309	$2,442	BM002X06NPW22	3.23	2.58	88.5	101	44	14
	900	213/5T	$3,146	$3,287	$3,435	BM002X08NPW22	3.39	2.71	85.5	169	59	16
3	3600	182/4T	$1,980	$2,104	$2,237	BM003X02NPW22	3.63	2.90	86.5	101	44	14
	1800	182/4T	$2,060	$2,184	$2,317	BM003X04NPW22	3.91	3.13	89.5	104	44	14
	1200	213/5T	$2,771	$2,911	$3,059	BM003X06NPW22	4.41	3.53	89.5	141	59	16
	900	213/5T	$3,795	$3,936	$4,084	BM003X08NPW22	4.56	3.65	85.5	196	59	16
5	3600	182/4T	$2,190	$2,314	$2,447	BM005X02NPW22	5.90	4.72	88.5	101	44	14
	1800	182/4T	$2,369	$2,493	$2,626	BM005X04NPW22	6.45	5.16	89.5	108	44	14
	1200	213/5T	$3,359	$3,500	$3,647	BM005X06NPW22	6.83	5.46	89.5	182	59	16
	900	254/6T	$4,956	$5,229	$5,549	BM005X08NPW22	7.58	6.06	87.5	300	111	18
7.5	3600	213/5T	$2,787	$2,927	$3,075	BM007X02NPW22	8.76	7.01	89.5	159	59	16
	1800	213/5T	$3,007	$3,148	$3,296	BM007X04NPW22	9.00	7.20	91.7	154	59	16
	1200	254/6T	$4,330	$4,604	$4,923	BM007X06NPW22	9.48	7.58	91.0	304	111	18
	900	254/6T	$6,470	$6,743	$7,063	BM007X08NPW22	11.1	8.88	87.5	326	111	18
10	3600	213/5T	$4,005	$4,146	$4,294	BM010X02NPW22	11.6	9.28	90.2	183	59	16
	1800	213/5T	$3,460	$3,600	$3,748	BM010X04NPW22	12.4	9.92	91.7	192	59	16
	1200	254/6T	$5,432	$5,705	$6,025	BM010X06NPW22	12.9	10.3	91.0	331	111	18
	900	284/6T	$8,535	$8,871	$9,285	BM010X08NPW22	13.4	10.7	90.2	437	192	20
15	3600	254/6T	$4,870	$5,144	$5,463	BM015X02NPW22	17.2	13.8	91.0	278	111	18
	1800	254/6T	$4,820	$5,093	$5,413	BM015X04NPW22	18.0	14.4	92.4	293	111	18
	1200	284/6T	$8,306	$8,642	$9,056	BM015X06NPW22	17.9	14.3	91.7	443	192	20
	900	284/6T	$9,887	$10,222	$10,636	BM015X08NPW22	19.4	15.5	90.2	481	192	20
20	3600	254/6T	$5,682	$5,955	$6,275	BM020X02NPW22	23.2	18.6	91.0	311	111	18
	1800	254/6T	$5,357	$5,630	$5,949	BM020X04NPW22	24.1	19.3	93.0	333	111	18
	1200	284/6T	$9,474	$9,810	$10,224	BM020X06NPW22	24.2	19.4	91.7	490	192	20
	900	324/6T	$11,683	$12,088	$12,572	BM020X08NPW22	28.3	22.6	91.0	542	295	25
25	3600	284/6TS	$6,780	$7,116	$7,530	BM025X02NPW22	28.5	22.8	91.7	426	192	20
	1800	284/6T	$6,460	$6,795	$7,209	BM025X04NPW22	29.5	23.6	93.6	452	192	20
	1200	324/6T	$9,298	$9,703	$10,187	BM025X06NPW22	30.4	24.3	93.0	650	295	25
	900	324/6T	$12,039	$12,444	$12,928	BM025X08NPW22	35.9	28.7	91.0	600	295	25
30	3600	284/6TS	$7,431	$7,767	$8,180	BM030X02NPW22	33.8	27.0	91.7	456	192	20
	1800	284/6T	$6,757	$7,092	$7,506	BM030X04NPW22	35.1	28.1	93.6	501	192	20
	1200	324/6T	$10,472	$10,877	$11,361	BM030X06NPW22	35.8	28.6	93.0	644	295	25
	900	364/5T	$18,033	$18,907	$20,007	BM030X08NPW22	37.0	29.6	92.4	902	391	25
40	3600	324/6TS	$9,298	$9,703	$10,187	BM040X02NPW22	45.8	36.6	92.4	547	295	25
	1800	324/6T	$8,297	$8,702	$9,186	BM040X04NPW22	47.1	37.7	94.1	582	295	25
	1200	364/5T	$14,624	$15,498	$16,598	BM040X06NPW22	46.5	37.2	94.1	933	391	25
	900	364/5T	$18,276	$19,149	$20,249	BM040X08NPW22	50.0	40.0	92.4	975	391	25
50	3600	324/6TS	$10,142	$10,548	$11,031	BM050X02NPW22	56.1	44.9	93.0	584	295	25
	1800	324/6T	$8,988	$9,393	$9,876	BM050X04NPW22	59.2	47.4	94.5	626	295	25
	1200	364/5T	$16,034	$16,908	$18,008	BM050X06NPW22	57.4	45.9	94.1	968	391	25
	900	404/5T	$24,992	$25,866	$26,966	BM050X08NPW22	60.0	48.0	93.0	1,118	391	25
60	3600	364/5TS	$15,419	$16,293	$17,393	BM060X02NPW22	67.0	53.6	93.6	825	391	25
	1800	364/5T	$14,671	$15,545	$16,645	BM060X04NPW22	68.3	54.6	95.0	968	391	25
	1200	404/5T	$20,037	$20,910	$22,010	BM060X06NPW22	69.5	55.6	94.5	1,142	391	25
	900	404/5T	$29,407	$30,281	$31,381	BM060X08NPW22	73.0	58.4	93.0	1,217	391	25
75	3600	364/5TS	$17,850	$18,724	$19,824	BM075X02NPW22	81.9	65.5	93.6	847	391	25
	1800	364/5T	$16,324	$17,198	$18,298	BM075X04NPW22	84.1	67.3	95.4	1,019	391	25
	1200	404/5T	$21,370	$22,244	$23,344	BM075X06NPW22	84.9	67.9	94.5	1,195	391	25
100	3600	404/5TS	$22,046	$22,920	$24,020	BM100X02NPW22	110	88.0	94.1	1,045	391	25
	1800	404/5T	$20,694	$21,568	$22,668	BM100X04NPW22	111	88.8	95.4	1,246	391	25

Flange: Replace 'M' with 'C' for C Flange
Replace 'M' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

W22 NEMA Brake Motors - NEMA Premium

TEFC - Motor Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3495	143/5T	2.86	1.43	1.14	8.2	280%	340%	22	41.9	68	1.25	74.0	77.0	78.5	0.69	0.79	0.84
		1760	143/5T	2.82	1.41	1.13	8.4	280%	350%	18	46.3	51	1.25	80.0	84.0	85.5	0.60	0.70	0.78
		1150	143/5T	3.46	1.73	1.38	6.2	300%	300%	28	58.4	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
		875	182/4T	4.60	2.30	1.84	6.0	300%	350%	22	108	50	1.25	74.0	77.0	78.5	0.32	0.42	0.52
1.5	1.1	3490	143/5T	3.92	1.96	1.57	8.9	350%	380%	21	46.3	68	1.25	81.5	84.0	84.0	0.70	0.80	0.84
		1755	143/5T	4.04	2.02	1.62	8.3	250%	340%	14	54	51	1.25	82.5	85.5	86.5	0.60	0.70	0.79
		1165	182/4T	5.08	2.54	2.03	8.0	320%	400%	16	83.6	52	1.25	84.0	86.5	87.5	0.45	0.54	0.62
		860	182/4T	5.40	2.70	2.16	5.5	250%	260%	17	124	50	1.25	80.0	82.5	82.5	0.43	0.54	0.62
2	1.5	3480	143/5T	5.12	2.56	2.05	8.9	350%	380%	17	57.3	68	1.25	82.5	85.5	85.5	0.71	0.80	0.86
		1750	143/5T	5.38	2.69	2.15	8.0	260%	300%	11	56.2	51	1.25	85.5	86.5	86.5	0.62	0.74	0.81
		1165	182/4T	6.46	3.23	2.58	7.5	300%	300%	31	101	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
		870	213/5T	6.78	3.39	2.71	7.6	240%	290%	39	169	52	1.25	82.5	84.0	85.5	0.45	0.55	0.65
3	2.2	3510	182/4T	7.26	3.63	2.90	8.3	240%	380%	41	101	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182/4T	7.82	3.91	3.13	8.1	230%	340%	23	104	56	1.25	87.5	88.5	89.5	0.61	0.73	0.79
		1170	213/5T	8.82	4.41	3.53	7.0	200%	280%	58	141	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
		865	213/5T	9.12	4.56	3.65	6.8	230%	280%	44	196	52	1.25	84.0	85.5	85.5	0.50	0.63	0.71
5	3.7	3500	182/4T	11.8	5.90	4.72	7.5	230%	350%	25	101	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1755	182/4T	12.9	6.45	5.16	7.2	230%	320%	15	108	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1170	213/5T	13.7	6.83	5.46	6.6	190%	240%	57	182	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
		880	254/6T	15.2	7.58	6.06	5.3	190%	250%	44	300	54	1.25	85.5	87.5	87.5	0.49	0.62	0.70
7.5	5.5	3520	213/5T	17.5	8.76	7.01	7.2	210%	300%	27	159	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1765	213/5T	18.0	9.00	7.20	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.67	0.78	0.84
		1175	254/6T	19.0	9.48	7.58	6.8	250%	300%	30	304	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
		880	254/6T	22.2	11.1	8.88	5.3	200%	250%	33	326	54	1.25	85.5	87.5	87.5	0.50	0.63	0.71
10	7.5	3515	213/5T	23.2	11.6	9.28	7.2	210%	290%	24	183	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1760	213/5T	24.8	12.4	9.92	6.4	200%	300%	17	192	58	1.25	90.2	91.7	91.7	0.66	0.77	0.83
		1175	254/6T	25.8	12.9	10.3	6.5	230%	280%	26	331	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
		880	284/6T	26.8	13.4	10.7	5.6	200%	240%	32	437	54	1.25	89.5	90.2	90.2	0.61	0.72	0.78
15	11	3530	254/6T	34.4	17.2	13.8	6.7	220%	270%	25	278	72	1.25	89.5	91.0	91.0	0.77	0.85	0.88
		1765	254/6T	36.0	18.0	14.4	6.5	230%	270%	17	293	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284/6T	35.8	17.9	14.3	6.7	230%	270%	20	443	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
		880	284/6T	38.8	19.4	15.5	5.5	200%	230%	25	481	54	1.25	90.2	91.0	90.2	0.62	0.73	0.79
20	15	3520	254/6T	46.4	23.2	18.6	6.1	200%	240%	21	311	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1765	254/6T	48.2	24.1	19.3	6.5	230%	270%	15	333	64	1.25	91.7	92.4	93.0	0.68	0.79	0.84
		1175	284/6T	48.4	24.2	19.4	6.2	230%	260%	16	490	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
		880	324/6T	56.6	28.3	22.6	5.0	190%	220%	27	542	56	1.25	89.5	91.0	91.0	0.54	0.66	0.73
25	18.5	3535	284/6TS	57.0	28.5	22.8	6.3	200%	250%	17	426	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	59.0	29.5	23.6	6.2	240%	270%	24	452	64	1.25	92.4	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	60.8	30.4	24.3	6.2	210%	260%	26	650	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
		880	324/6T	71.8	35.9	28.7	5.2	200%	230%	23	600	56	1.25	89.5	91.0	91.0	0.51	0.64	0.71
30	22	3535	284/6TS	67.6	33.8	27.0	6.3	200%	250%	15	456	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	70.2	35.1	28.1	6.1	240%	240%	20	501	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	71.6	35.8	28.6	6.2	230%	260%	21	644	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
		880	364/5T	74.0	37.0	29.6	6.2	170%	240%	20	902	60	1.25	92.4	92.4	92.4	0.63	0.74	0.80
40	30	3555	324/6TS	91.6	45.8	36.6	6.4	230%	240%	22	547	74	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1770	324/6T	94.2	47.1	37.7	6.1	220%	240%	20	582	66	1.25	93.6	94.1	94.1	0.72	0.80	0.85
		1180	364/5T	93.0	46.5	37.2	6.4	200%	240%	21	933	66	1.25	93.6	93.6	94.1	0.73	0.82	0.86
		880	364/5T	100	50.0	40.0	6.0	170%	230%	18	975	60	1.25	92.4	93.0	92.4	0.66	0.76	0.81
50	37	3550	324/6TS	112	56.1	44.9	6.2	220%	230%	23	584	74	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1775	324/6T	118	59.2	47.4	6.2	230%	270%	15	626	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5T	115	57.4	45.9	6.4	200%	240%	18	968	66	1.25	93.6	94.1	94.1	0.74	0.83	0.86
		880	404/5T	120	60.0	48.0	6.8	170%	260%	15	1,118	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
60	45	3560	364/5TS	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1775	364/5T	137	68.3	54.6	6.6	240%	260%	15	968	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
		1180	404/5T	139	69.5	55.6	6.4	200%	230%	20	1,142	68	1.25	94.1	94.5	94.5	0.74	0.82	0.86
		880	404/5T	146	73.0	58.4	6.5	180%	270%	13	1,217	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
75	55	3555	364/5TS	164	81.9	65.5	6.6	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1775	364/5T	168	84.1	67.3	6.4	240%	260%	14	1,019	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86
		1180	404/5T	170	84.9	67.9	6.4	200%	230%	17	1,195	68	1.25	94.1	94.5	94.5	0.74	0.83	0.86
100	75	3555	404/5TS	220	110	88.0	6.5	200%	240%	14	1,045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		1775	404/5T	222	111	88.8	7.3	240%	260%	13	1,246	68	1.25	95.0	95.0	95.4	0.77	0.84	0.88

W22 NEMA Brake Motors - NEMA Premium

TEFC - Brake Electrical Data

The W22 brake motor can be supplied with full, half wave or special bridge rectifiers.

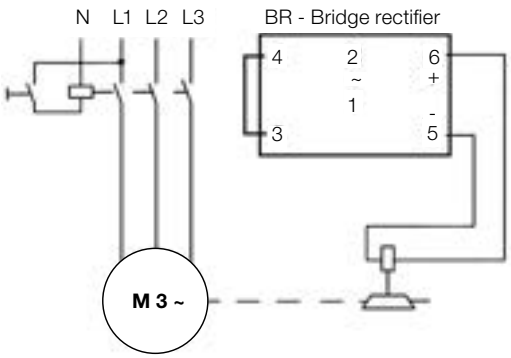
Rared voltage V_{RMS} [Vca]	Brake size	Brake coil voltage [Vcc]	Wave form
110	10 to 25	103	Full
220-240		205	
380-415		180	Half wave
440-480		205	
525-575		250	

Braking system

The W22 brake motor allows two braking system: normal braking or fast braking.

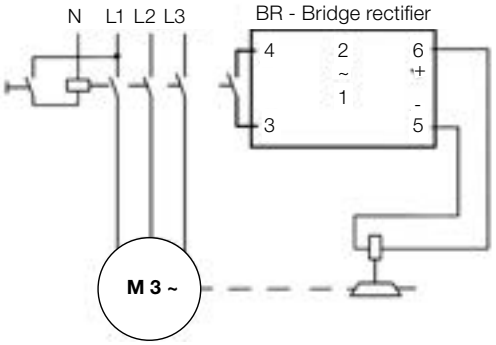
Normal braking

The bridge rectifier of the brake coil can be supplied directly from the motor terminals, without interruption.



Fast braking

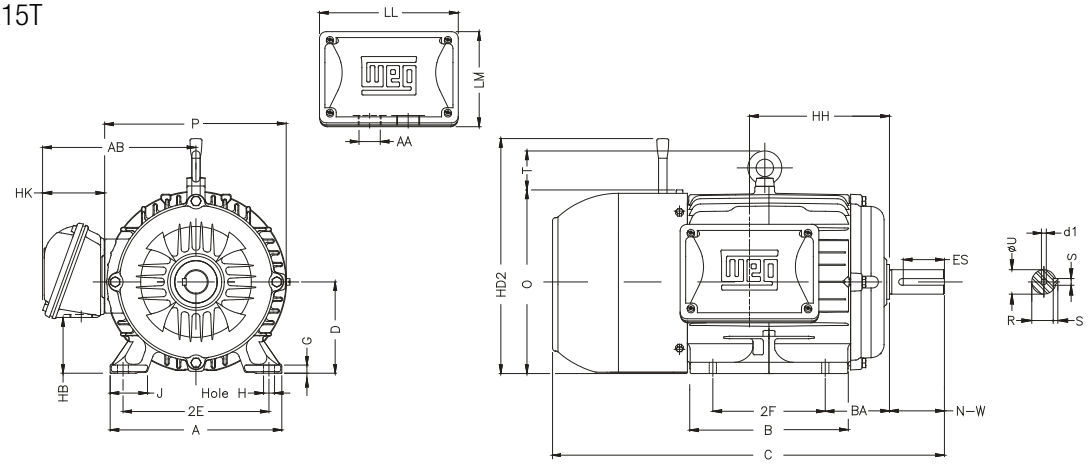
For fast braking, the bridge rectifier must be connected as shown.



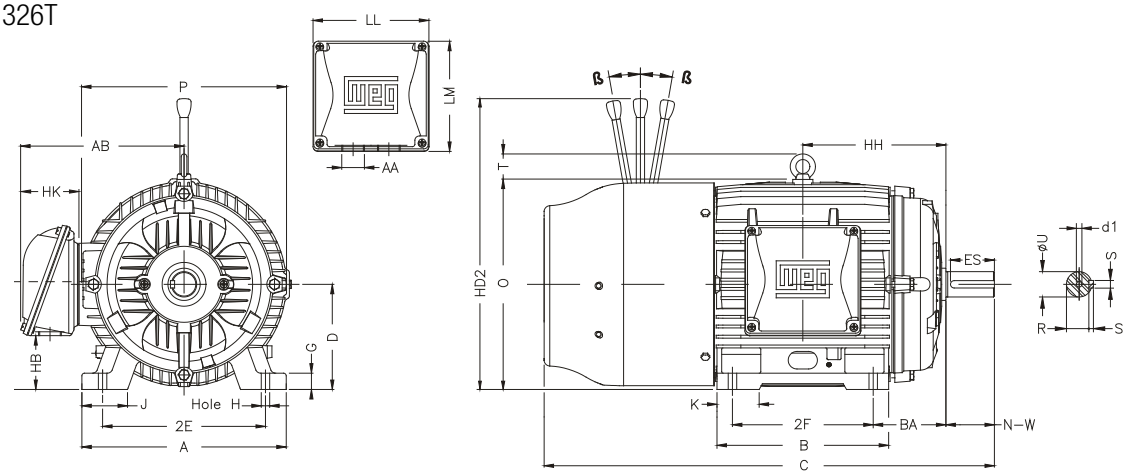
W22 NEMA Brake Motors - NEMA Premium

TEFC - Mechanical Data

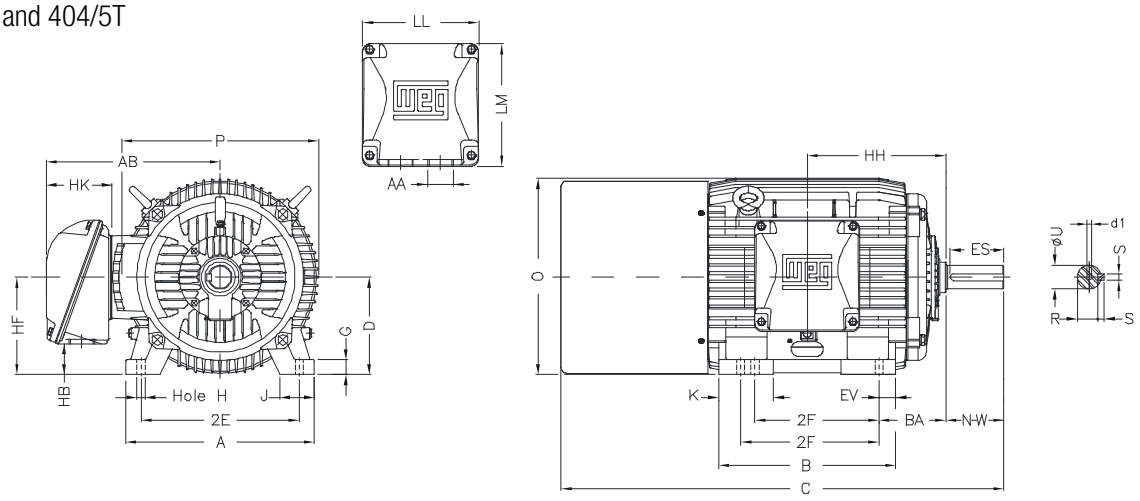
Frames 143T to 215T



Frames 254T to 326T



Frame 364/5T and 404/5T



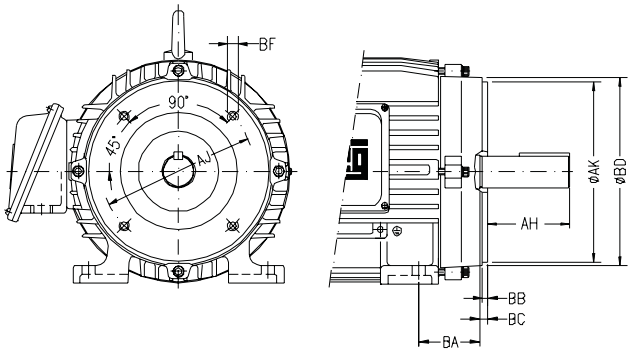
W22 NEMA Brake Motors - NEMA Premium

TEFC - Mechanical Data

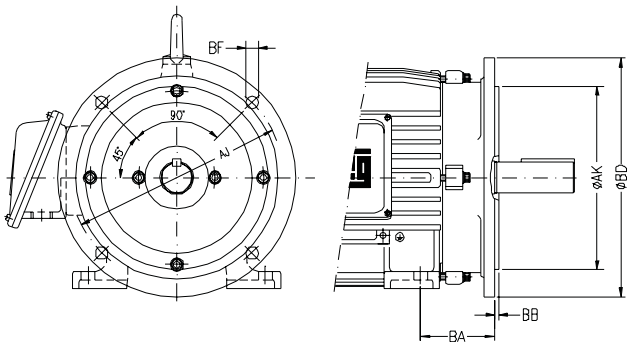
Frame	A	AA	AB	B	BA	C	D	EV	G	Shaft				
										U	N-W	ES	R	S
143/5T	6.457	NPT 3/4"	6.263	6.142	2.250	13.346	3.500	-	0.354	0.875	2.250	1.575	0.765	0.187
182/4T	8.661	NPT 1"	7.513	6.969	2.750	15.860	4.500		0.394	1.125	2.750	1.969	0.984	0.250
213/5T	9.764		8.609	8.858	3.500	19.517	5.250		0.669	1.375	3.375	2.480	1.203	0.313
254/6T	12.126	NPT 1 1/2"	10.483	11.732	4.250	24.945	6.250		0.827	1.625	4.000	2.756	1.406	0.375
284/6TS	13.780		11.073	13.071	4.750	26.557	7.000		1.023	1.625	3.250	2.480	1.406	0.375
284/6T						27.929				1.875	4.622	3.149	1.594	0.500
324/6TS	15.157	NPT 2"	12.575	14.567	5.250	29.616	8.000		1.300	1.875	3.750	2.756	1.594	
324/6T						31.116				2.125	5.250	3.937	1.844	
364/5TS	17.165	NPT 3"	16.016	15.760	5.875	32.276	9.000	1.654	1.480	1.875	3.748	1.968	1.591	
364/5T				15.512		34.251				2.375	5.874	4.330	2.019	0.625
404/5T	19.921			18.386	6.625	48.545	10.000	2.323	1.811	2.874	7.250	5.512	2.449	0.750

Frame	Hole H	HB	HH	HK	J	K	LL	LM	O	P	2E	2F	d1	Bearings		Manual release	
														D.E.	N.D.E.	HD2	β
143/5T	0.344	1.727	4.750	2.733	1.437	-	5.961	4.215	7.122	7.047	5.500	4.000/5.000	A4	6205-ZZ	6204-ZZ	8.697	9°
182/4T	0.406	2.216	5.500	3.117	1.614		6.575	5.246	9.343	8.740	7.500	4.500/5.500		6207-ZZ	6206-ZZ	12.138	
213/5T		2.966	7.000		1.772	2.165			10.841	10.669	8.500	5.500/7.000		6308-ZZ	6207-ZZ	14.659	10°
254/6T	0.531	3.061	9.250	3.976	2.539	2.559	7.815	7.480	12.598	12.953	10.000	8.252/10.000		6309-C3	6209-Z-C3	17.195	9°
284/6TS		3.535	10.250		3.110	2.874			14.067	14.173	11.000	9.500/11.000		6311-C3	6211-Z-C3	19.563	10°
284/6T																	
324/6TS	0.657	4.811	11.250	4.705	3.189	3.189	9.055	8.661	15.953	15.827	12.500	10.500/12.000		6312-C3	6212-Z-C3	25.48	
324/6T																	
364/5TS	0.660	4.251	12.362	6.024	3.150	4.138	10.591	11.267	17.957	17.914	14.016	11.260/12.244	UNC 3/4"	6314-C3	6314-C3	-	-
364/5T																	
404/5T	0.810	5.252	14.213		3.937	5.669			19.566	19.134	15.984	12.244/13.740		6316-C3			

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143/5TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2.125
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.75
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							



Saw Arbor Motors
TEFC

Standard Features

- Three-phase, 2 and 4 pole, 60Hz
- Voltage:
  - 208-230/460 V
  - 575 V
- 80S-MS up to 90L-MS - IEC metric frames
- Die cast aluminum squirrel cage rotor
- Totally Enclosed Fan Cooled (IP54 according to IEC34-5 standard)
- Class 'F' insulation
- 104ºF (40ºC) ambient temperature
- 575V rated motors have Spike Resistant WISE wire.
  - Protects against IGBT voltage spikes up to 2400V.
  - Exceeds NEMA MG1 Part 31.4.4.2
- Duty S6 (50%ED)
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- Ball bearings
- F1 mount
- Service factor: 1.0
- Stainless steel nameplate
- Cast iron frame
- Dimensions according to IEC 72
- NPT threaded terminal box conduit hole
- LH or RH thread on shaft
- Paint: Enamel alkyd resin base
- Color: RAL 7022 (Dark Gray)
- WEG paint plan: 207A

Optional Features

- Special voltages
- Specially dimensioned shaft
- Terminal Box with metric threaded cable entries
- Stainless steel shaft
- Double shaft
- F2 mount

Saw Arbor Motors

TEFC - Purchasing Data

Rated Output		IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				460V	575V			
3	3600	80S	$1,483	SR003X02S6	4.29	3.43	80.5	85	18.543
5	3600	80M	$1,977	SR005X02S6	6.65	5.32	85.0	100	20.512
	1800	90L	$2,737	SR005X04S6	7.03	5.62	84.5	143	26.476
7.5	3600	80L	$2,479	SR007X02S6	9.76	7.81	87.4	122	22.48
	1800	90L	$3,053	SR007X04S6	10.1	8.08	85.3	165	26.476
10	3600	90L	$3,458	SR010X02S6	12.3	9.84	85.0	166	26.476
	1800	90L	$3,862	SR010X04S6	14.1	11.3	85.5	178	26.476

Shaft: Replace 'R' with 'L' for left side shaft
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

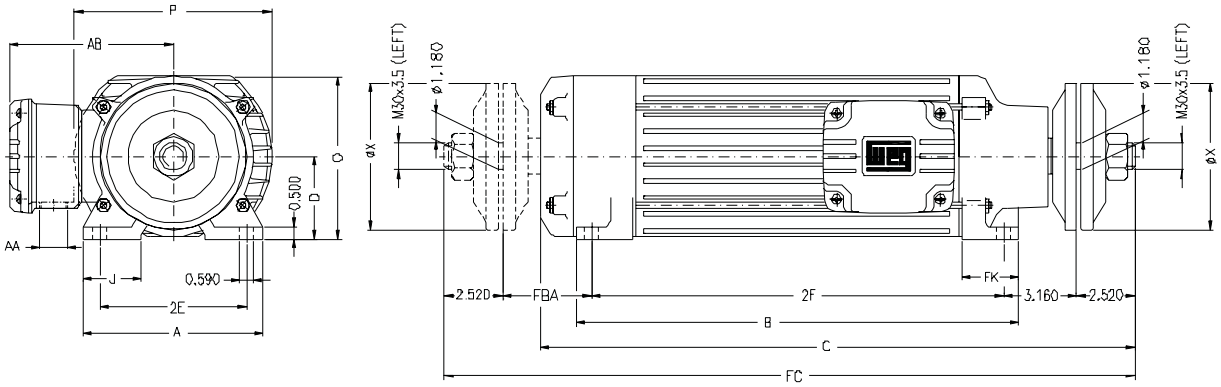
Saw Arbor Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
3	2.2	3500	80S	8.58	4.29	3.43	7.3	330%	370%	9	85	62	1.0	76.0	79.5	80.5	0.65	0.75	0.80
5	3.7	3470	80M	13.3	6.65	5.32	8	340%	410%	7	100	62	1.0	82.0	84.5	85.0	0.66	0.77	0.82
		1740	90L	14.1	7.03	5.62	8	380%	410%	8	143	51	1.0	82.0	84.0	84.5	0.58	0.71	0.78
7.5	5.5	3490	80L	19.5	9.76	7.81	9.2	400%	460%	5	122	62	1.0	85.2	87.0	87.4	0.64	0.75	0.81
		1730	90L	20.2	10.1	8.08	8.2	370%	400%	7	165	51	1.0	83.5	85.0	85.3	0.60	0.74	0.80
10	7.5	3480	90L	24.6	12.3	9.84	8.5	400%	420%	7	166	68	1.0	82.0	84.5	85.0	0.77	0.86	0.90
		1720	90L	28.2	14.1	11.3	8	400%	400%	6	178	51	1.0	84.5	85.5	85.5	0.57	0.71	0.78

Saw Arbor Motors

TEFC - Mechanical Data



IEC FRAMES	2E	J	A	P	AB	2F	FK	FK1	B	FBA	D	O	C	FC	AA	X	BEARINGS	
																	D.E.	N.D.E.
80S	7.480	1.378	8.858	7.480	5.984	10.236	1.772	1.772	12.008	3.150	3.150	6.063	18.543	22.440	NPT0.75"	4.724	6307-ZZ	6207-ZZ
80M						12.205			13.976				20.512	24.409				
80L						14.173			15.949				22.480	26.377				
90L	6.299	2.500	7.756	8.189	6.575	20.079	2.441	4.960	21.378	3.150	3.543	6.968	26.476	29.842	NPT1"	6.299	6308-ZZ	6208-ZZ

W22 Medium Voltage Motors

TEFC - Severe Duty

Standard Features

- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 1200V, 2300V, 2400V, 3300V, 4000V, 4160V & 6600V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields
- Ball bearings
- 4140 steel shaft
- Class “F” (DT 80K) insulation for all frames
- VPI Impregnation Insulation system
- Insulated endbells from frame L447/9T and up
- Temperature rise limited to Class “B” (80K)
- Service Factor: 1.15 unless otherwise indicated
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Re-configurable Terminal Box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan: 203A
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings
- 2 x RTD (PT100) per phase - 3 wire
- Plastic fan for 2 pole motors up to frame 588/9TS
- Aluminum fan for 4, 6, & 8 pole motors

Optional Features

- 50Hz
- Special voltages
- Special shafts
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges for all ratings
- Roller bearings available
- Special epoxy painting

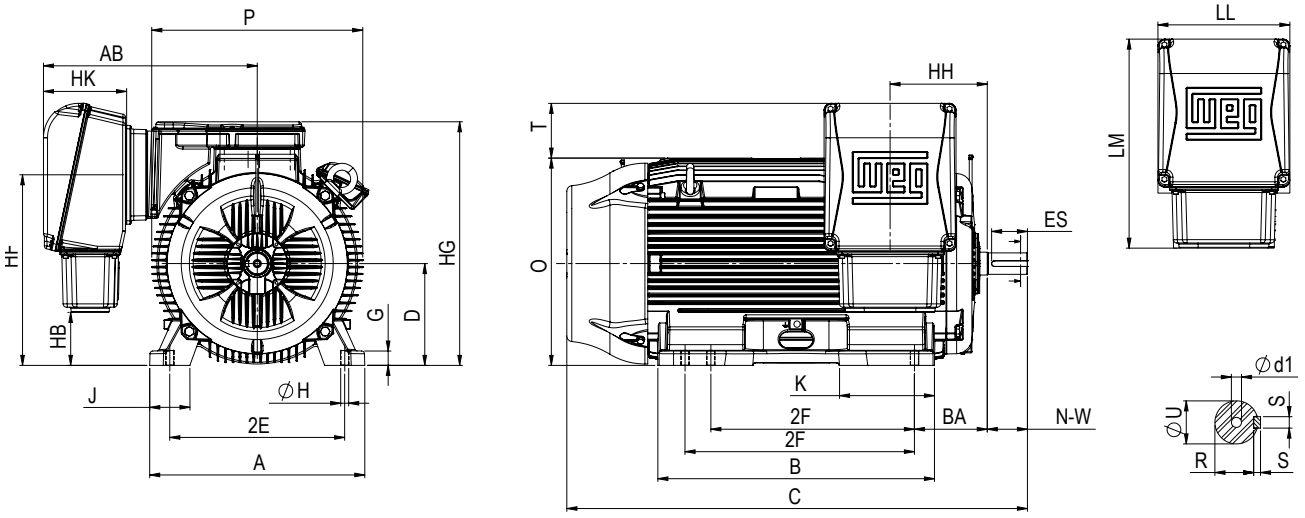
W22 Medium Voltage Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)					Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			2300V	2400V	3300V	4000V	4160V								50%	75%	100%	50%	75%	100%
125	90	3576	L447/9TS	28.8	27.6	20.1	16.6	15.9	7.3	140%	270%	20	2315	88	1.15	90.2	91.7	92.4	0.72	0.81	0.85
		1183	L447/9T	30.4	29.1	21.2	17.5	16.8	6.4	130%	210%	16	2535	71	1.15	92.5	92.7	92.7	0.64	0.75	0.80
		892	L447/9T	34.7	33.3	24.2	20.0	19.2	6.3	180%	210%	15	2866	66	1.15	91.8	92.9	93.0	0.51	0.63	0.70
150	110	3576	L447/9TS	34.9	33.4	24.3	20.1	19.3	7.3	140%	270%	20	2425	88	1.15	91.7	92.4	93.0	0.72	0.81	0.85
		1786	L447/9T	35.6	34.1	24.8	20.5	19.7	6.6	160%	230%	20	2425	79	1.15	91.5	92.7	93.3	0.69	0.78	0.83
		1182	L447/9T	36.7	35.2	25.6	21.1	20.3	6.4	130%	210%	17	2756	71	1.15	92.8	92.9	92.9	0.67	0.77	0.81
		892	L447/9T	42.3	40.5	29.5	24.3	23.4	6.5	200%	250%	14	3086	66	1.15	92.2	93.0	93.1	0.51	0.63	0.70
175	132	3576	L447/9TS	41.6	39.9	29.0	23.9	23.0	7.3	140%	270%	20	2557	88	1.15	91.7	93.0	93.6	0.72	0.81	0.85
		1786	L447/9T	42.1	40.3	29.3	24.2	23.3	6.6	160%	230%	20	2535	79	1.15	92.0	93.2	93.8	0.71	0.80	0.84
		1182	L447/9T	43.8	42.0	30.5	25.2	24.2	6.4	130%	210%	14	2866	71	1.15	93.0	93.2	93.3	0.67	0.77	0.81
		891	L447/9T	51.5	49.4	35.9	29.6	28.5	6.3	180%	220%	11	3197	66	1.15	92.5	93.4	93.3	0.49	0.62	0.69
200	150	3576	L447/9TS	47.0	45.0	32.8	27.0	26.0	7.3	140%	270%	20	2756	88	1.15	92.4	93.6	94.1	0.72	0.82	0.85
		1786	L447/9T	47.7	45.7	33.2	27.4	26.4	6.8	160%	230%	20	2646	79	1.15	92.6	93.8	93.8	0.71	0.80	0.84
		1182	L447/9T	49.7	47.6	34.6	28.6	27.5	6.6	130%	210%	14	2910	71	1.15	93.2	93.6	93.6	0.66	0.77	0.81
		891	L447/9T	58.4	56.0	40.7	33.6	32.3	6.3	180%	220%	11	3197	66	1.00	92.6	93.4	93.5	0.49	0.62	0.69
250	185	3578	L447/9TS	57.2	54.8	39.9	32.9	31.6	7.3	140%	270%	15	2976	88	1.15	93.2	94.2	94.6	0.74	0.83	0.86
		1786	L447/9T	58.4	56.0	40.7	33.6	32.3	6.8	160%	230%	20	2822	79	1.15	93.4	94.3	94.5	0.71	0.80	0.84
		1190	L447/9T	64.8	62.1	45.2	37.3	35.8	7.5	190%	260%	12	2976	71	1.00	94.0	94.2	94.3	0.57	0.69	0.76
		893	586/7T	67.5	64.7	47.0	38.8	37.3	6.7	180%	240%	21	4189	75	1.15	93.0	94.0	94.2	0.53	0.65	0.73
300	220	3578	L447/9TS	67.8	65.0	47.3	39.0	37.5	7.6	150%	270%	12	3219	88	1.00	93.6	94.5	94.7	0.73	0.82	0.86
		1786	L447/9T	69.5	66.6	48.4	40.0	38.4	7.1	180%	270%	18	2976	79	1.15	93.8	94.6	94.7	0.71	0.80	0.84
		1191	586/7T	76.0	72.8	53.0	43.7	42.0	7.2	170%	230%	19	4078	77	1.15	93.2	94.2	94.5	0.60	0.71	0.77
		893	588/9T	80.1	76.8	55.8	46.1	44.3	6.6	180%	270%	18	4630	75	1.15	93.6	94.4	94.5	0.53	0.65	0.73
350	260	3580	586/7TS	78.0	74.8	54.4	44.9	43.1	7.5	140%	300%	20	3858	89	1.15	94.1	94.5	95.1	0.78	0.85	0.88
		1789	586/7T	83.7	80.2	58.3	48.1	46.3	7.6	210%	270%	25	3968	81	1.15	93.6	94.6	95.1	0.66	0.77	0.82
		1191	588/9T	89.5	85.8	62.4	51.5	49.5	7	170%	230%	15	4409	77	1.15	93.7	94.6	94.6	0.60	0.71	0.77
		893	588/9T	95.5	91.5	66.6	54.9	52.8	6.8	200%	290%	17	4850	75	1.00	94.2	94.8	94.9	0.52	0.65	0.72
400	300	3582	588/9TS	89.7	86.0	62.5	51.6	49.6	7.8	160%	250%	20	4409	89	1.15	94.5	95.0	95.4	0.80	0.86	0.88
		1789	588/9T	94.2	90.3	65.7	54.2	52.1	7.6	210%	270%	25	4630	81	1.15	94.0	95.0	95.1	0.70	0.80	0.84
		1191	588/9T	103	98.7	71.8	59.2	56.9	7.2	180%	240%	18	4850	77	1.15	94.0	94.9	95.0	0.59	0.71	0.77
		891	588/9T	107	103	74.6	61.5	59.2	6.2	170%	250%	12	5071	75	1.00	94.4	94.9	95.0	0.55	0.67	0.74
450	330	3582	588/9TS	98.8	94.7	68.9	56.8	54.6	7.8	160%	250%	20	4806	89	1.15	94.5	95.4	95.4	0.80	0.86	0.88
		1789	588/9T	103	98.7	71.8	59.2	56.9	7.6	210%	270%	25	4740	81	1.15	94.3	95.0	95.4	0.70	0.80	0.84
		1190	588/9T	112	107	78.1	64.4	61.9	6.8	150%	210%	12	4960	77	1.15	94.3	95.0	95.1	0.62	0.73	0.78
500	370	3582	588/9TS	110	105	76.7	63.3	60.8	7.8	160%	250%	15	5071	89	1.15	95.0	95.8	95.8	0.80	0.86	0.88
		1789	588/9T	116	111	80.8	66.7	64.1	7.6	210%	270%	25	4960	81	1.15	94.7	95.2	95.6	0.70	0.80	0.84
		1190	588/9T	125	120	87.1	71.9	69.1	6.8	150%	210%	12	5071	77	1.00	94.3	95.0	95.1	0.61	0.72	0.78
550	400	3582	588/9TS	119	114	82.9	68.4	65.8	7.8	160%	250%	15	5291	89	1.15	95.4	95.8	95.8	0.80	0.86	0.88
		1789	588/9T	125	120	87.1	71.9	69.1	8	220%	280%	20	5071	81	1.00	94.8	95.4	95.6	0.70	0.80	0.84
600	450	3582	588/9TS	132	127	92.0	75.9	73.0	8.1	170%	250%	15	5291	89	1.00	95.4	95.8	96.2	0.78	0.85	0.87
		1788	588/9T	137	131	95.5	78.8	75.7	7.6	210%	270%	20	5071	81	1.00	95.0	95.5	95.7	0.70	0.80	0.84

W22 Medium Voltage Motors

TEFC - Severe Duty - Mechanical Data



NEMA Frames	MOUNTING				A	B	C	D	G	J	K	O	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
L447/9T	18.000	20.000 25.000	0.810	7.500	21.929	31.535	57.780	11.000	1.630	3.937	8.780	23.970	25.866	6.739 8.117*	0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000 25.000					54.030								0.625	2.021	3.000	4.750	2.375
586/7T	23.000	22.000 25.000	1.181	10.000	29.528	29.921	61.704	14.500	2.492	5.512	9.055	28.985	28.977	7.559 8.937*	1.000	3.312	8.661	11.625	3.875
586/7TS		22.000 25.000					54.829								0.625	2.021	3.000	4.750	2.375
588/9T		28.000 32.000				37.980	69.381				13.031				1.000	3.312	8.661	11.625	3.875
588/9TS		28.000 32.000					62.506								0.625	2.021	3.000	4.750	2.375

NEMA Frames	TERMINAL BOX								BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	D.E.	N.D.E
L447/9T	28.543 28.740*	2.008 3.386*	20.905 22.283*	28.189 29.567*	12.606	11.417	18.110	28.740	6322-C3	6319-C3
L447/9TS									6314-C3	
586/7T	29.330	7.807 9.185*	27.177 28.673*	33.988 35.366*	13.386				6322-C3	6319-C3
586/7TS									6314-C3	
588/9T									6322-C3	6319-C3
588/9TS									6314-C3	

W40 Medium Voltage Motors

ODP & WP-II / WP-II

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 2300V, 2400V, 3300V, 4000V, 4160V (Special voltages up to 6.6kV, please call for details)
- Cast Iron Frames
- Cast Iron endshields and terminal box
- Degree of protection:
  - ODP (IP23) for frames 5010/11 to L5810/11
  - WPI (IP24) for frame size L6808/09
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft for 2 pole motors
- 4140 for 4 pole motors
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- NEMA design “B”
- Service Factor: 1.15
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Paint Plan: 203A
- Color: RAL 5009 (Blue)
- Paint: Synthetic Enamel alkyd resin base
- Stainless steel nameplate with laser etching
- Cooling system with finned rotor
- Regreasable bearings

Optional Features

- 50 Hz
- Special voltages
- NEMA C & D flanges
- Specially designed shaft
- Second shaft end
- Thermistors, Thermostats or RTD’s (PT100)
- Auxiliary terminal box
- Roller bearings
- Degree of protection: WP-I (IP24), WP-II (IPW24)
- Shaft grounding (Aegis or WEG)
- IEC metric frames (on request) for frames 160M to 280S/M
- F2 and F3 mount
- Drip cover
- No feet

W40 Medium Voltage Motors

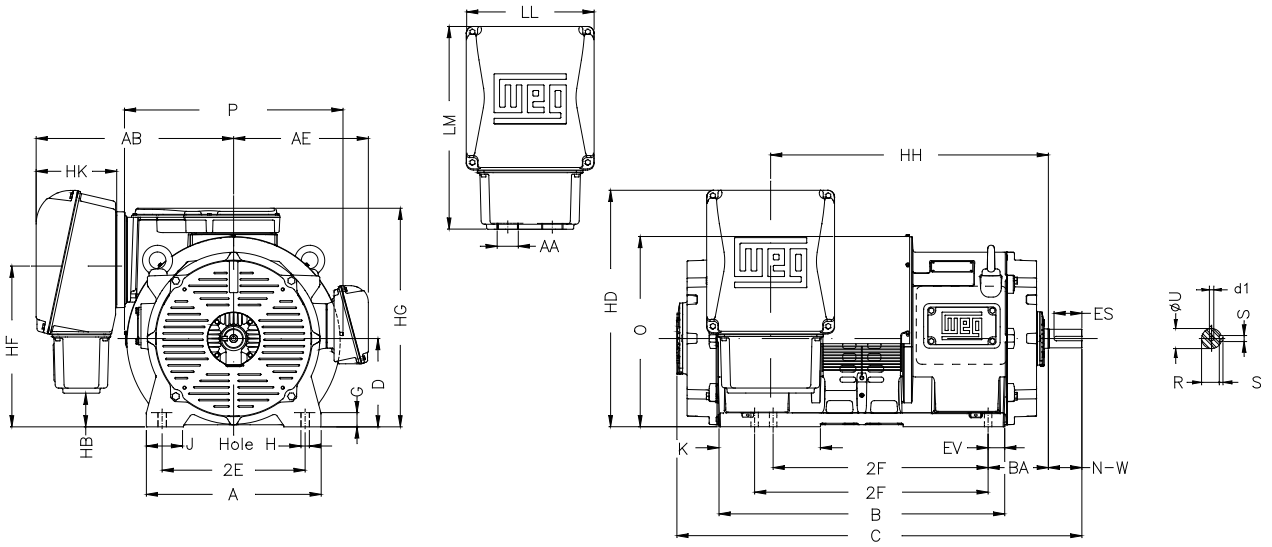
ODP - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)					Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			2300V	2400V	3300V	4000V	4160V								50%	75%	100%	50%	75%	100%
350	260	3567	5010/11	79.4	76.1	55.3	45.7	43.9	7.5	140%	270%	12	2756	91	1.15	93.5	94.5	94.5	0.75	0.84	0.87
		1781	5010/11	81.8	78.3	57.0	47.0	45.2	6.0	100%	220%	20	2867	89	1.15	93.5	94.0	94.0	0.75	0.83	0.85
400	300	3567	5010/11	91.5	87.7	63.8	52.6	50.6	7.5	140%	270%	10	2867	91	1.15	93.7	94.7	94.7	0.75	0.84	0.87
		1781	5010/11	94.1	90.1	65.6	54.1	52.0	6.0	100%	220%	15	3087	89	1.15	93.7	94.2	94.2	0.75	0.83	0.85
450	330	3567	5010/11	100	96.2	70.0	57.7	55.5	7.5	140%	270%	10	2977	91	1.15	94.1	94.8	94.8	0.75	0.84	0.87
		1781	5010/11	103	99.0	72.0	59.4	57.1	6.0	100%	220%	15	3308	89	1.15	93.8	94.3	94.3	0.75	0.83	0.85
500	370	3567	5010/11	112	108	78.3	64.6	62.1	7.5	140%	270%	10	3087	91	1.15	94.3	95.0	95.0	0.75	0.84	0.87
		1781	5010/11	116	111	80.6	66.5	63.9	6.0	100%	220%	15	3528	89	1.15	94.0	94.5	94.5	0.75	0.83	0.85
550	400	3567	5010/11	121	116	84.5	69.7	67.0	7.5	140%	270%	10	3197	91	1.15	94.6	95.2	95.2	0.75	0.84	0.87
		1782	5010/11	124	119	86.6	71.4	68.7	6.0	100%	220%	15	3749	89	1.15	94.5	95.0	95.0	0.75	0.83	0.85
600	440	3567	5010/11	133	128	92.8	76.5	73.6	7.5	140%	270%	10	3308	91	1.15	94.9	95.4	95.4	0.75	0.84	0.87
		1782	5010/11	137	131	95.4	78.7	75.7	6.0	100%	220%	15	3749	89	1.00	94.5	95.0	95.0	0.75	0.83	0.85
		1780	L5010/11	138	133	96.4	79.6	76.5	4.8	100%	170%	30	4520	80	1.15	94.5	95.0	95.0	0.80	0.83	0.84
650	480	3567	5010/11	145	139	101	83.4	80.2	7.8	150%	280%	8	3418	91	1.15	95.0	95.5	95.5	0.75	0.84	0.87
		1780	L5010/11	151	145	105	86.8	83.5	4.8	100%	170%	25	4675	80	1.15	94.5	95.0	95.0	0.80	0.83	0.84
700	515	3567	5010/11	156	149	108	89.4	86.0	7.8	150%	280%	8	3528	91	1.15	95.0	95.6	95.6	0.75	0.84	0.87
		3580	L5810/11	153	146	106	87.8	84.4	7.1	110%	240%	15	4410	94	1.15	95.0	96.2	96.2	0.80	0.85	0.88
		1780	L5010/11	161	155	112	92.8	89.2	4.8	100%	170%	25	4961	80	1.15	95.0	95.0	95.4	0.80	0.83	0.84
		1785	L5810/11	162	155	113	93.1	89.5	6.1	80%	220%	17	4410	94	1.15	95.8	96.2	96.2	0.73	0.81	0.83
750	550	3567	5010/11	166	159	116	95.4	91.7	7.8	150%	280%	8	3638	91	1.00	95.1	95.7	95.7	0.75	0.84	0.87
		3575	L5010/11	165	158	115	94.8	91.2	6.2	70%	200%	20	4520	89	1.15	95.4	95.8	95.8	0.85	0.88	0.89
		1780	L5010/11	175	168	122	101	97.0	4.8	100%	170%	25	4961	80	1.15	95.0	95.0	95.4	0.80	0.83	0.84
800	590	3567	5010/11	180	172	125	103	99.4	7.8	150%	280%	8	3749	91	1.00	95.2	95.8	95.8	0.73	0.83	0.86
		3580	L5810/11	175	168	122	101	96.7	7.1	110%	240%	15	4631	94	1.15	95.2	96.2	96.2	0.80	0.85	0.88
		1780	L5010/11	184	177	129	106	102	4.8	100%	170%	25	5072	80	1.00	95.0	95.4	95.4	0.80	0.83	0.84
		1785	L5810/11	186	179	130	107	103	6.1	80%	220%	17	4741	94	1.15	95.8	96.2	96.2	0.73	0.81	0.83
900	660	3575	L5010/11	194	185	135	111	107	6.2	70%	210%	20	4741	89	1.15	95.4	95.8	95.8	0.85	0.88	0.89
		3580	L5810/11	195	187	136	112	108	7.1	110%	240%	15	4851	94	1.15	95.2	96.2	96.2	0.80	0.85	0.88
		1785	L5810/11	206	198	144	119	114	6.2	80%	220%	17	4961	94	1.15	96.2	96.5	96.5	0.73	0.82	0.83
1000	750	3570	L5010/11	221	211	154	127	122	6.2	70%	220%	20	4851	89	1.15	95.4	95.8	95.8	0.85	0.88	0.89
		3580	L5810/11	222	213	155	128	123	7.2	110%	240%	15	5072	94	1.15	95.2	96.5	96.5	0.80	0.86	0.88
		1785	L5810/11	232	222	161	133	128	6.2	80%	220%	15	5292	94	1.15	96.2	96.5	96.5	0.74	0.83	0.84
1250	900	3570	L5010/11	264	253	184	152	146	6.2	70%	220%	10	5182	89	1.00	95.8	96.2	96.2	0.85	0.88	0.89
		1785	L5810/11	279	267	194	160	154	6.2	80%	220%	15	5843	94	1.00	96.2	96.5	96.5	0.74	0.83	0.84
1500	1100	3580	L5810/11	320	307	223	184	177	7.3	120%	250%	12	5954	94	1.00	96.2	96.8	96.8	0.81	0.86	0.89
		1785	L5810/11	336	322	234	193	186	6.2	80%	220%	15	6615	94	1.00	96.2	96.5	96.8	0.75	0.83	0.85
		1790	L6808/09	340	326	237	196	188	6.3	90%	220%	12	8600	89	1.15	96.2	96.5	96.6	0.74	0.80	0.84
1750	1320	3580	L5810/11	385	369	269	222	213	7.5	120%	250%	12	6615	94	1.00	96.5	96.8	96.8	0.81	0.87	0.89
		3580	L6808/09	385	369	269	222	213	6.3	60%	220%	15	7718	89	1.15	95.8	96.5	96.5	0.85	0.88	0.89
		1790	L6808/09	409	392	285	235	226	6.3	90%	220%	12	9041	89	1.00	96.4	96.6	96.7	0.74	0.81	0.84
1900	1400	3575	L6808/09	409	392	285	235	226	6.0	60%	220%	15	8489	89	1.15	96.2	96.5	96.5	0.85	0.88	0.89
2000	1500	3580	L6808/09	427	409	298	245	236	6.5	60%	270%	15	8820	89	1.15	96.1	96.8	96.8	0.86	0.90	0.91
		1790	L6808/09	463	444	323	266	256	6.3	90%	220%	12	9482	89	1.00	96.6	96.8	96.8	0.74	0.81	0.84
2250	1650	3575	L6808/09	481	461	335	277	266	5.8	60%	200%	15	8820	89	1.00	96.5	96.8	96.8	0.86	0.88	0.89
2500	1800	3575	L6808/09	525	503	366	302	290	5.5	60%	200%	14	9041	89	1.00	96.5	96.8	96.8	0.87	0.88	0.89

W40 Medium Voltage Motors

ODP - Mechanical Data

IP23 Frames 5010/11 to L5810/11

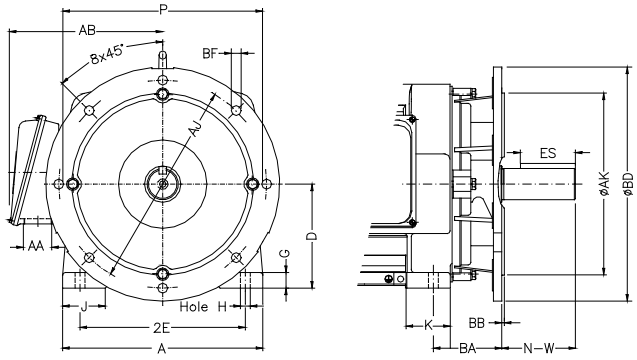


Frame	2E	J	A	AB	AE	P	2F	K	B	BA	U	d1	N-W	ES	S	R
5010/11 - 2P	20.000	5.236	24.724	28.543	18.121	30.670	32.000/36.000	14.200	40.260	8.504	2.625	DUNC 3/4"-10	4.750	3.000	0.625	2.275
5010/11											3.625		10.630	8.861	0.875	3.134
L5010/11 - 2P		5.140	24.803	34.908	19.900	34.095		10.685	42.256	8.500	3.250		5.750	4.331	0.750	2.831
L5010/11											4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11 - 2P	23.000	6.710	29.530	34.908	21.864	39.976	36.000/40.000	10.810	46.785	10.000	3.375	DUNC 7/8"-9	6.750	5.512	0.875	2.880
L5810/11											5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423

Frame	D	G	O	LL	LM	HB	HD	HF	HG	HH	HK	Hole H	C	AA	Bearings	
															Drive end	Non-drive end
5010/11 - 2P	12.500	1.972	27.150	18.090	28.700	6.150	34.850	25.042	32.323	39.331	11.410	1.102	57.000	NPT 4"	6314 C3	6314 C3
5010/11							41.510						62.880		6319 C3	
L5010/11 - 2P		1.873	29.527	21.850	32.874	5.510	38.384	21.142	34.754	40.822	18.805	1.181	59.211		6218 C3	6218 C3
L5010/11							51.145						65.086		6224 C3	
L5810/11 - 2P	14.500		34.460			9.085	41.959	24.717	38.570	45.830			65.570		6220 C3	6220 C3
L5810/11							54.723						70.444		6228 C3	

FD Flange

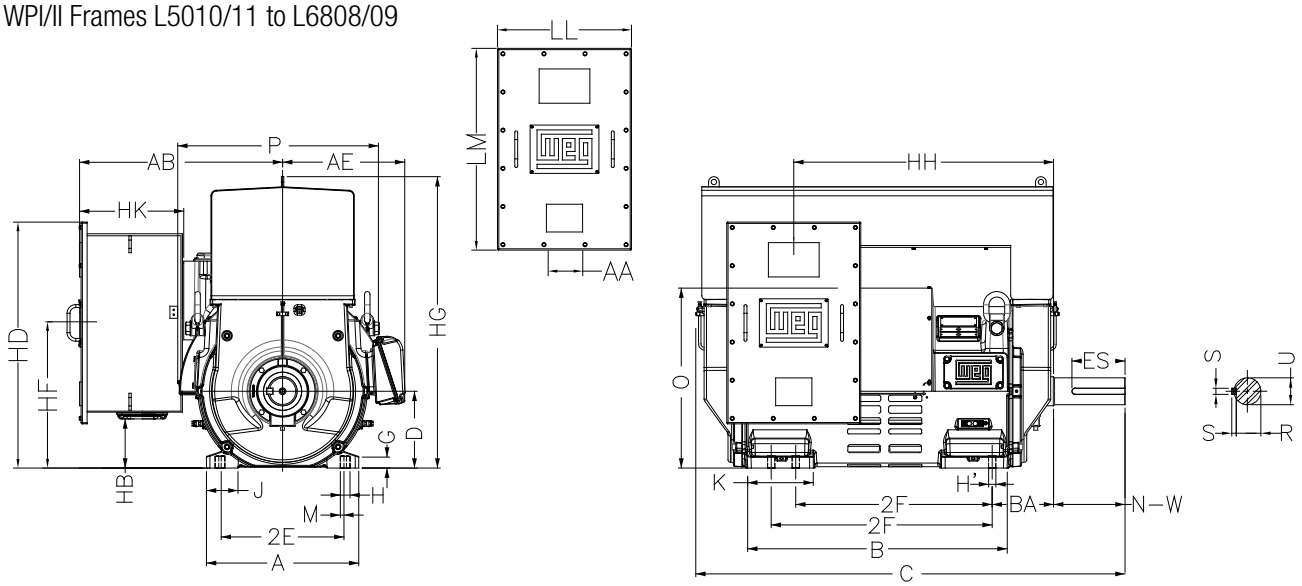
Frame	Flange	AJ	AK	BD	S	T	AH	α	Nº of holes
5010/11TS	FD-558	22.000	18.000	24.000	0.828	0.250	4.500	45°	8
5010/11T							10.380		
L5010/11TS							5.500		
L5010/11T							11.375		
L5810/11TS	FD-762	30.000	28.000	32.000			6.500		
L5810/11T							11.375		
L6808/09TS	FD-895	35.250	33.250	37.250	1.000		6.500		
L6808/09T							11.375		



W40 Medium Voltage Motors

WP-I / WP-II - Mechanical Data

WPI/II Frames L5010/11 to L6808/09

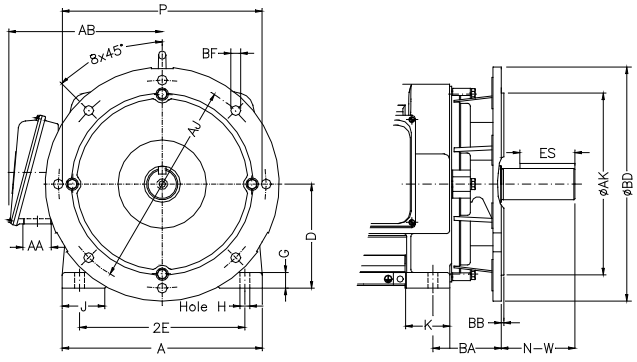


Frame	2E	J	A	AB	AE	P	2F	K	B	BA	U	d1	N-W	ES	S	R
L5010/11 - 2P	20.000	5.140	24.803	34.908	19.900	34.095	32.000/36.000	10.685	42.256	10.000	3.250	DUNC 3/4"-10	5.750	4.331	0.750	2.831
L5010/11											4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11 - 2P	23.000	6.710	29.530		21.864	39.976	36.000/40.000	10.810	47.785	12.500	3.375	DUNC 7/8"-9	6.750	5.512	0.875	2.880
L5810/11											5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423
L6808/09 - 2P	27.000	7.470	33.070	39.041	24.620	48.800					3.750	DUNC 7/8"-9	6.750	5.512	0.875	3.261
L6808/09											5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423

Frame	D	G	O	LL	LM	HB	HD	HF	HG	HH	HK	Hole H	C	AA	Bearings	
															Drive end	Non-drive end
L5010/11 - 2P	12.500	1.873	29.527	21.850	32.874	5.510	38.384	21.142	47.436	42.322	18.805	1.181	64.037	NPT 4"	6218 C3	6218 C3
L5010/11													69.912		6224 C3	
L5810/11 - 2P	14.500		34.460			9.085	41.959	24.717	51.482	48.326			72.537		6220 C3	6220 C3
L5810/11													77.412		6228 C3	
L6808/09 - 2P	17.000	1.973	39.524			14.695	47.569	30.327	57.214	48.720		1.417	72.537		6220 C3	
L6808/09													77.412		6228 C3	

FD Flange

Frame	Flange	AJ	AK	BD	S	T	AH	α	Nº of holes
5010/11TS	FD-558	22.000	18.000	24.000	0.828	0.250	4.500	45°	8
5010/11T							10.380		
L5010/11TS							5.500		
L5010/11T							11.375		
L5810/11TS	FD-762	30.000	28.000	32.000			6.500		
L5810/11T							11.375		
L6808/09TS	FD-895	35.250	33.250	37.250	1.000		6.500		
L6808/09T							11.375		



HGF Low Voltage Motors
TEFC

Standard Features

- Rated Ouput: 125HP to 1500HP
- Sinusoidal power supply up to 690V
- Motors manufactured in 2 to 12 poles
- Cast iron frame 5000 to 7000
- Internal and external self-ventilated enclosed cooling system
- Service Factor: 1.0
- Class of insulation: F
- Temperature rise: 80°C
- Ambient temperature: 40°C
- Altitude: 1000 m
- Mounting: F1 or F2
- Vertical Jacking Provisions
- Provisions for vibration devices 2 per bearing
- Starting method: DOL
- Degree of Protection: IP55
- Service duty: (S1)
- Temperature detector: Pt100
  - 2 per phase with 3 wires
  - 1 per bearing with 3 wires
- 06 loose connection leads inside the terminal box (without terminal block)
- Labyrinth taconite in grease lubricated bearings
- Grease lubricated bearings
- Electrically insulated non-drive end bearing
- Paint Plan:
  - 214P - Frames up to 6800
  - 212P - Frames 7000
- RAL 5009 - Blue
- Two accessory terminal boxes, one for temperature detectors and one for space heaters
- Single phase space heater
- Stainless steel nameplate
- Grounding lug on the frame and terminal box
- Aluminum fan

Optional Features

- Service Factor: 1.15
- Insulation Class: H
- Temperature rise: 105°K for class F, 125°K for class H
- Ambient temperature above 40°C
- Altitude above 1000 m
- Degree of Protection IPW55 and above
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded t-box in different sizes
- Power factor correction capacitors
- Non-reversion ratchet

- PT100, Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
- Encoder
- Sleeve bearing
- Oil lubricated bearing
- Special bearing (overdesigned) for axial or radial thrust
- Special painting
- Stainless steel fasteners
- Terminal block
- Cable gland in the terminal box entrance
- Protection against voltage surge
- Aluminum, copper or brass rotor
- Vibration detector
- Noise suppressor in the air inlet and outlet
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- One or more accessory terminal boxes
- Indep. hydraulic oil circulation sytem for sleeve bearing
- Electrically insulated non-drive end bearing for all frame sizes when driven by frequency drive
- Both bearings electrically insulated
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Independent cooling
- Inpro Seal
- VFD Duty
- Class 1 Division 2, CSA
- API 541
- EX 'n' (Zone 2) ATEX or IECEx

HGF Low Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			460V	575V								50%	75%	100%	50%	75%	100%
125	90	710	5006/7/8T	173	139	5.5	150%	200%	15	3417	80.0	1.00	91.8	93.0	93.0	0.51	0.63	0.70
150	110	710	5006/7/8T	211	169	5.5	150%	200%	15	3638	80.0	1.00	92.2	93.3	93.3	0.51	0.63	0.70
175	132	710	5009/10/11T	253	202	5.5	150%	200%	15	4079	80.0	1.00	92.6	93.6	93.6	0.51	0.63	0.70
		593	5807/8/9T	262	210	4.5	120%	170%	20	5247	82.0	1.00	93.8	94.3	94.3	0.50	0.61	0.67
200	150	889	5009/10/11T	242	194	5.5	120%	240%	24	3814	75.0	1.00	94.1	94.7	94.7	0.68	0.78	0.82
		710	5009/10/11T	286	229	5.8	160%	200%	15	4365	80.0	1.00	92.8	93.9	93.9	0.51	0.63	0.70
		593	5807/8/9T	298	239	4.5	120%	170%	20	5335	82.0	1.00	93.8	94.3	94.3	0.50	0.61	0.67
250	185	1186	5009/10/11T	284	227	6.1	120%	250%	17	3649	77.0	1.00	94.3	94.8	94.9	0.75	0.84	0.86
		888	5009/10/11T	297	238	5.5	120%	230%	26	4112	75.0	1.00	94.5	95.1	95.1	0.70	0.78	0.82
		713	5807/8/9T	368	295	5.5	130%	220%	20	5071	82.0	1.00	93.0	94.0	94.2	0.48	0.60	0.67
		592	5810/11/12T	363	290	4.5	120%	170%	20	6217	82.0	1.00	93.9	94.3	94.3	0.50	0.62	0.68
300	220	3581	5009/10/11TS	321	257	6.5	90%	250%	28	3527	79.0	1.00	94.4	95.3	95.6	0.84	0.89	0.90
		1186	5009/10/11T	334	267	6.1	130%	250%	16	3902	77.0	1.00	94.7	95.2	95.1	0.77	0.84	0.87
		889	5009/10/11T	353	282	5.5	120%	250%	21	4420	75.0	1.00	94.9	95.3	95.3	0.68	0.78	0.82
		713	5810/11/12T	429	344	5.5	130%	220%	20	5952	82.0	1.00	93.3	94.3	94.5	0.49	0.61	0.68
		592	6806/7/8T	385	308	5.0	100%	200%	20	7628	82.0	1.00	94.0	94.3	94.5	0.57	0.69	0.76
350	260	3579	5009/10/11TS	375	300	6.5	90%	250%	24	3726	79.0	1.00	94.8	95.5	95.7	0.85	0.89	0.91
		1784	5009/10/11T	396	317	7.0	120%	240%	22	3748	79.0	1.00	94.7	95.5	95.8	0.75	0.83	0.86
		1186	5009/10/11T	393	315	6.1	130%	250%	16	4101	77.0	1.00	94.9	95.4	95.4	0.77	0.85	0.87
		892	5807/8/9T	417	334	5.5	120%	230%	21	4960	79.0	1.00	95.0	95.5	95.5	0.68	0.78	0.82
		713	5810/11/12T	506	405	5.5	130%	220%	20	6614	82.0	1.00	93.6	94.6	94.8	0.49	0.61	0.68
		592	6806/7/8T	452	362	5.5	100%	200%	20	8014	82.0	1.00	94.0	94.9	95.0	0.57	0.69	0.76
400	300	3577	5009/10/11TS	435	348	6.5	100%	250%	24	3902	79.0	1.00	95.2	96.0	96.1	0.86	0.89	0.90
		1784	5009/10/11T	456	365	7.0	130%	250%	20	3968	79.0	1.00	95.0	95.7	96.0	0.75	0.83	0.86
		1188	5807/8/9T	462	370	6.1	120%	250%	26	4861	81.0	1.00	95.2	95.9	95.8	0.74	0.83	0.85
		891	5807/8/9T	480	384	5.5	120%	230%	23	5181	79.0	1.00	95.3	95.8	95.7	0.68	0.78	0.82
		714	6806/7/8T	505	404	5.5	100%	220%	22	7363	82.0	1.00	94.9	95.6	95.6	0.60	0.72	0.78
		593	6809/10/11T	521	417	5.5	90%	200%	20	9568	82.0	1.00	94.4	94.9	95.1	0.59	0.69	0.76
450	330	3575	5009/10/11TS	473	378	6.8	100%	250%	24	4145	79.0	1.00	95.6	96.2	96.3	0.85	0.89	0.91
		1784	5009/10/11T	501	401	7.0	130%	250%	19	4123	79.0	1.00	95.2	95.8	96.1	0.75	0.83	0.86
		1188	5807/8/9T	508	406	6.1	120%	250%	26	5071	81.0	1.00	95.4	95.9	95.9	0.75	0.83	0.85
		892	5810/11/12T	527	422	5.7	120%	230%	17	6217	79.0	1.00	95.4	96.0	95.9	0.68	0.78	0.82
		714	6806/7/8T	554	443	5.5	100%	220%	22	7893	82.0	1.00	95.1	95.8	95.8	0.60	0.72	0.78
		595	7006/10	563	451	5.5	80%	190%	40	10042	82.0	1.00	95.3	95.5	95.5	0.61	0.71	0.77
500	370	3573	5810/11/12TS	536	429	6.0	90%	240%	45	5291	86.0	1.00	95.6	96.2	96.3	0.86	0.89	0.90
		1784	5009/10/11T	561	449	6.8	130%	250%	19	4233	79.0	1.00	95.4	96.0	96.1	0.76	0.84	0.86
		1188	5810/11/12T	561	449	6.2	130%	250%	26	5952	81.0	1.00	95.5	96.2	96.2	0.75	0.83	0.86
		892	5810/11/12T	590	472	6.3	130%	240%	17	6548	79.0	1.00	95.4	96.0	96.0	0.67	0.77	0.82
		714	6806/7/8T	620	496	5.5	100%	220%	22	8135	82.0	1.00	95.3	96.0	96.0	0.60	0.72	0.78
		595	7006/10	631	505	5.5	80%	190%	40	10251	82.0	1.00	95.4	95.6	95.6	0.61	0.71	0.77
550	400	714	6806/7/8T	669	535	5.5	100%	220%	22	8664	82.0	1.00	95.5	96.2	96.2	0.60	0.72	0.78
		595	7006/10	681	545	5.5	80%	190%	40	10560	82.0	1.00	95.5	95.7	95.7	0.61	0.71	0.77
600	440	3577	5810/11/12TS	628	503	6.5	90%	220%	36	5710	86.0	1.00	95.7	96.4	96.5	0.87	0.89	0.91
		1783	5009/10/11T	659	527	7.0	140%	250%	16	4542	79.0	1.00	95.5	96.1	96.3	0.77	0.84	0.87
		1188	5810/11/12T	667	533	6.1	130%	250%	25	6393	81.0	1.00	95.6	96.3	96.3	0.75	0.83	0.86
		893	6806/7/8T	701	561	6.6	110%	230%	22	7937	79.0	1.00	95.1	95.8	96.1	0.67	0.78	0.82
		714	6806/7/8T	735	588	5.5	100%	220%	22	8929	82.0	1.00	95.7	96.4	96.4	0.60	0.72	0.78
		595	7006/10	749	599	5.5	80%	190%	40	11133	82.0	1.00	95.6	95.8	95.8	0.61	0.71	0.77
650	480	714	7006/10	774	619	6.2	80%	220%	25	10516	82.0	1.00	95.6	96.1	96.1	0.67	0.77	0.81
		595	7006/10	805	644	5.5	80%	190%	40	11464	82.0	1.00	95.7	95.9	95.9	0.62	0.72	0.78
700	515	3576	5810/11/12TS	727	582	6.5	90%	230%	45	5952	86.0	1.00	96.0	96.7	96.6	0.88	0.91	0.92
		1788	5810/11/12T	769	615	6.5	150%	230%	33	6393	83.0	1.00	95.9	96.5	96.6	0.79	0.85	0.87
		1192	6806/7/8T	788	631	6.3	130%	250%	18	7970	81.0	1.00	96.1	96.5	96.5	0.71	0.81	0.85
		893	6806/7/8T	820	656	6.6	110%	230%	22	8378	79.0	1.00	95.2	95.9	96.2	0.67	0.78	0.82
		714	7006/10	829	663	6.2	80%	220%	25	10803	82.0	1.00	95.7	96.2	96.2	0.67	0.77	0.81
		595	7006/10	863	690	5.5	80%	190%	40	11707	82.0	1.00	95.8	96.0	96.0	0.62	0.72	0.78
750	560	714	7006/10	902	722	6.2	80%	220%	25	11067	82.0	1.00	95.7	96.2	96.2	0.67	0.77	0.81
		595	7006/10	937	750	5.5	80%	190%	40	12390	82.0	1.00	95.9	96.1	96.1	0.62	0.72	0.78
800	590	3580	6806/7/8TS	844	675	6.7	130%	240%	26	7540	89.0	1.00	95.5	96.3	96.5	0.84	0.90	0.91
		1788	6806/7/8T	899	719	7.3	120%	210%	17	7826	83.0	1.00	96.0	96.7	96.9	0.74	0.82	0.85
		1192	6806/7/8T	913	731	6.3	130%	220%	20	8378	81.0	1.00	96.1	96.5	96.5	0.69	0.80	0.84
		893	6809/10/11T	936	749	6.6	110%	230%	22	10229	79.0	1.00	95.4	96.1	96.4	0.67	0.78	0.82
		714	7006/10	948	758	6.2	80%	220%	25	11354	82.0	1.00	95.8	96.4	96.4	0.67	0.77	0.81
850	630	895	7006/10	976	781	5.9	70%	210%	26	12291	82.0	1.00	96.1	96.5	96.5	0.70	0.80	0.84
		714	7006/10	1014	811	6.2	80%	220%	25	11696	82.0	1.00	95.8	96.4	96.4	0.67	0.77	0.81
900	660	3580	6806/7/8TS	942	754	6.9	130%	240%	26	7826	89.0	1.00	95.7	96.4	96.6	0.85	0.90	0.91
		1788	6806/7/8T	1004	803	7.3	150%	220%	16	8267	83.0	1.00	96.0	96.8	97.0	0.76	0.82	0.85
		1192	6809/10/11T	1023	819	6.5	140%	240%	20	10009	81.0	1.00	96.2	96.6	96.6	0.69	0.80	0.84
		895	7006/10	1023	819	5.9	70%	210%	26	12617	82.0	1.00	96.1	96.5	96.5	0.70	0.80	0.84

HGF Low Voltage Motors

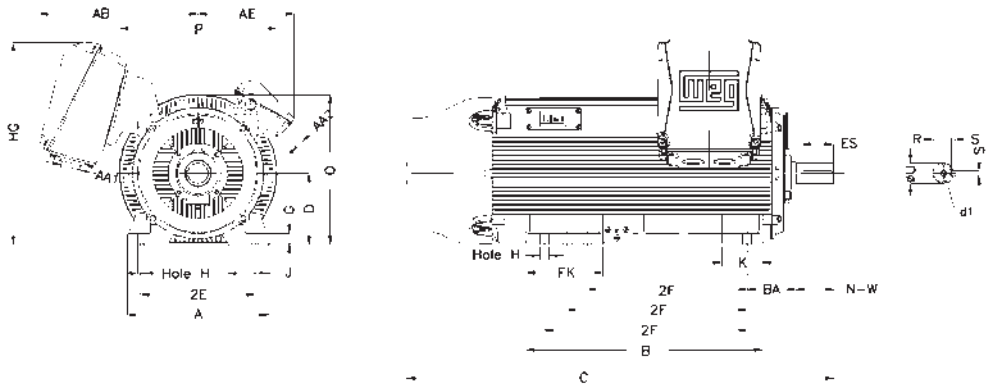
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			460V	575V								50%	75%	100%	50%	75%	100%
1000	750	3580	6806/7/8TS	1071	857	7.4	140%	250%	26	8157	89.0	1.00	95.9	96.5	96.7	0.85	0.90	0.91
		1788	6809/10/11T	1129	903	7.3	150%	210%	18	9766	83.0	1.00	96.3	97.0	97.0	0.76	0.83	0.86
		1193	7006/10	1119	895	6.5	70%	230%	20	11956	88.0	1.00	96.6	96.8	96.8	0.78	0.84	0.87
		895	7006/10	1148	918	5.9	70%	210%	26	13415	82.0	1.00	96.3	96.6	96.6	0.72	0.81	0.85
1100	800	1790	6809/10/11T	1215	972	7.8	150%	210%	18	9921	83.0	1.00	96.3	97.0	97.0	0.74	0.82	0.85
		1194	7006/10	1196	957	6.5	70%	230%	20	12291	88.0	1.00	96.6	96.8	96.8	0.78	0.84	0.87
1250	900	1792	7006/10	1349	1079	7.0	70%	240%	20	11299	90.0	1.00	95.8	96.5	96.6	0.76	0.84	0.87
		1194	7006/10	1358	1087	6.7	70%	230%	20	12952	88.0	1.00	96.7	96.9	96.9	0.76	0.84	0.86
1350	1000	1792	7006/10	1492	1194	7.3	70%	240%	20	11960	90.0	1.00	96.0	96.7	96.8	0.76	0.84	0.87
		1194	7006/10	1502	1201	6.5	70%	230%	20	12952	88.0	1.00	96.8	97.0	97.0	0.76	0.84	0.86
1500	1100	1792	7006/10	1636	1309	7.0	70%	240%	20	12291	90.0	1.00	96.1	96.8	96.9	0.76	0.84	0.87

HGF Low Voltage Motors

TEFC - Mechanical Data

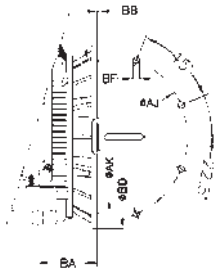
Frame 5006/7/8T to 6809/10/11T



Frame	2E	J	A	P	AB**	AE	2F	K	FK	B	BA	Shaft Extension				
												U	N-W	ES	S	R
5006/7/8T (TS*)	20.000	7.087	24.725	26.575	27.756	15.945	20.000	7.087	10.237	30.315	8.500	2.375*	4,75*	4,33*	0,625*	2,021*
							22.000					3.625	10.625	9.055	0.875	3.134
5009/10/11T (TS*)							25.000		13.386	41.339		2.375*	4,75*	4,33*	0,625*	2,021*
							28.000					3.625	10.625	9.055	0.875	3.134
							32.000									
							36.000									
5807/8/9T (TS*)	23.000	9.055	29.528	30.118	28.937	16.929	25.000	7.874	14.961	39.370	10.000	2.375*	4,75*	4,33*	0,625*	2,021*
							28.000									
							32.000					3.875	11.625	9.842	1.000	3.309
5810/11/12T (TS*)							36.000			51.181		2.375*	4,75*	4,33*	0,625*	2,021*
							40.000									
							45.000					3.875	11.625	9.842	1.000	3.309
6806/7/8T (TS*)	27.000	8.583	33.071	34.449	30.512	18.504	28.000	8.661	14.173	42.126	11.500	2.750*	5,75*	4,33*	0,625*	2,402*
							32.000									
							36.000					4.375	11.625	9.842	1.000	3.817
6809/10/11T (TS*)							40.000		16.338	56.102		2.750*	5,75*	4,33*	0,625*	2,402*
							45.000									
							50.000					4.375	11.625	9.842	1.000	3.817

Frame	D	G	O	HG**	H	H´	C	d1	AA1	AA2	Bearings			
											HGF Standard		HGF API 541	
											D.E.	N.D.E.	D.E.	N.D.E.
5006/7/8TS	12.500	1.968	25.886	34.941	1.181	1.575	61.049	UNC 3/4"	2xNPT3"	3xNPT3/4"	6314	6314	6314	6314
5006/7/8T							66.924	UNC 7/8"			6320	6316	6320	6320
5009/10/11TS							72.860	UNC 3/4"			6314	6314	6314	6314
5009/10/11T							78.735	UNC 7/8"			6320	6316	6320	6320
5807/8/9TS	14.500	2.492	29.657	37.925		1.968	69.120	UNC 3/4"			6314	6314	6314	6314
5807/8/9T							75.995	UNC 7/8"			6322	6320	6322	6322
5810/11/12TS							80.931	UNC 3/4"			6314	6314	6314	6314
5810/11/12T							87.806	UNC 7/8"			6322	6320	6322	6322
6806/7/8TS	17.000	3.220	34.323	42.000	1.417	2.205	83.589	UNC 3/4"			6315	6315	6315	6315
6806/7/8T							89.464	UNC 1"			NU224	6320	6324	6324
6809/10/11TS							95.400	UNC 3/4"			6315	6315	6315	6315
6809/10/11T							101.275	UNC 1"			NU224	6320	6324	6324

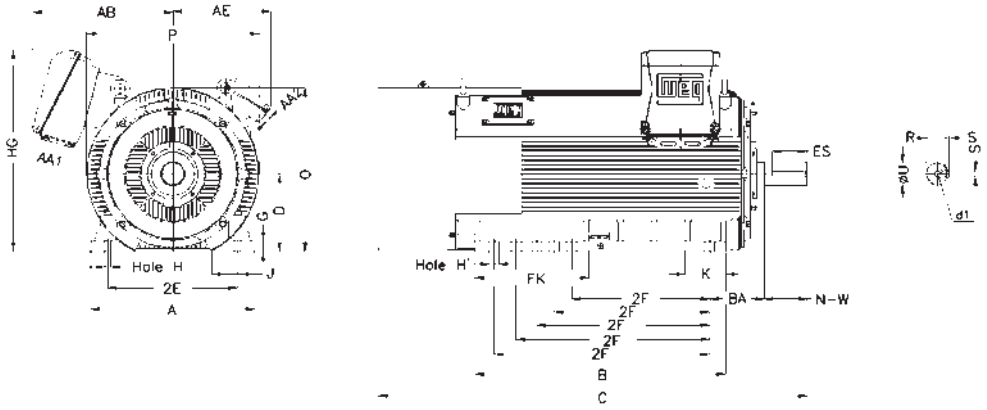
Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
5006/7/8T	D 558	8.5	22.000	18.000	24.000	1.000	0.250	8
5009/10/11T								
5807/8/9T	D 762	10.000	30.000	28.000	32.000	1.000		
5810/11/12T								
6806/7/8T	D 895	11.500	35.250	33.250	37.250	1.000		
6809/10/11T								



HGF Low Voltage Motors

TEFC - Mechanical Data

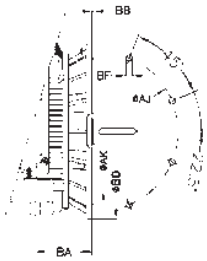
Frame 7006/10T



Frame	2E	J	A	P	AB**	AE	2F	K	FK	B	BA	Shaft Extension				
												U	N-W	ES	S	R
7006/10	30	9.961	37.402	39.370	32.087	21.260	32.000 36.000 40.000 45.000 50.000	9.134	26.063	57.087	12.402	3,375* 5.125	6,75* 11.625	5,512* 9.842	0,875* 1.250	2,88* 4.423

Frame	D	G	O	HG**	H	H´	C	d1	AA1	AA2	Bearings			
											HGF Standard		HGF API 541	
											D.E.	N.D.E.	D.E.	N.D.E.
7006/10	17.5	2.165	37.185	45.256	1.417	2.205	104,585	UNC7/8*	2XNPT3"	3XNPT3/4	6220	6220	6220	6220
							99.617	UNC1 1/4			6328	6324	6328	6328

Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
7006/10	FF 1080	12.402	42.520	39.370	45.275	1.102	0.236	8



HGF Medium Voltage Motors
TEFC

Standard Features

- Rated Ouput: 150HP to 3800HP
- Sinusoidal power supply up to 11kV
- Motors manufactured in 2 to 12 poles
- Cast iron frame 5000 to 9600
- Internal and external self-ventilated enclosed cooling system
- Service Factor: 1.0
- Class of insulation: F
- Temperature rise: 80°C
- Ambient temperature: 40°C
- Altitude: 1000 m
- Mounting: F1 or F2
- Vertical Jacking Provisions
- Provisions for vibration devices 2 per bearing
- Starting method: DOL
- Degree of Protection: IP55
- Service duty: (S1)
- Temperature detector: Pt100
  - 2 per phase with 3 wires
  - 1 per bearing with 3 wires
- Loose connection leads inside the terminal box (without terminal block)
- Labyrinth taconite in grease lubricated bearings
- Grease lubricated bearings for the following frame sizes:
  - For 2 pole motors in the following frame sizes:
    - Up to frame 6800 (inclusive) for 60 Hz
    - Up to frame 7000 (inclusive) for 50 Hz
  - For 4 pole motors in the following frame sizes:
    - Up to frame 8800 (inclusive) for 60 and 50 Hz
- Grease lubricated bearings for 6 pole motors and above
- Sleeve bearings for the following frame sizes:
  - For 2 pole motors:
    - Frame 7000 and above for 60 Hz
    - Frame 8000 and above for 50 Hz
  - For 4 pole motors in frame 9600
- Electrically insulated non-drive end bearing
- Paint Plan:
  - 214P - Frames up to 6800
  - 212P - Frames 7000 and up
- RAL 5009 - Blue
- Two accessory terminal boxes, one for temperature detectors and one for space heaters
- Single phase space heater
- Stainless steel nameplate
- Grounding lug on the frame and terminal box
- Aluminum fan

Optional Features

- Service Factor: 1.15
- Insulation Class: H
- Temperature rise: 105°K for class F, 125°K for class H
- Ambient temperature above 40°C

- Altitude above 1000 m
- Degree of Protection IPW55 and above
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded t-box in different sizes
- Power factor correction capacitors
- Non-reversion ratchet
- PT100, Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
- Encoder
- Sleeve bearing
- Oil lubricated bearing
- Special bearing (overdesigned) for axial or radial thrust
- Special painting
- Stainless steel fasteners
- Terminal block
- Cable gland in the terminal box entrance
- Protection against voltage surge
- Copper or brass rotor
- Vibration detector
- Noise suppressor in the air inlet and outlet
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- One or more accessory terminal boxes
- Indep. hydraulic oil circulation sytem for sleeve bearing
- Both bearings electrically insulated
- Shaft grounding (Aegis - up to 7000 frame or WEG). Not for Hazloc.
- Independent cooling
- Inpro Seal
- VFD Duty
- Class 1 Division 2, CSA
- API 541
- EX 'n' (Zone 2) ATEX or IECEx

HGF Medium Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			4160V								50%	75%	100%	50%	75%	100%
150	110	1780	5006/7/8T	19.8	6.0	120%	210%	15	3086	79	1	91.1	92.5	92.7	0.70	0.78	0.83
175	132	888	5009/10/11T	26.0	5.8	120%	250%	12	3616	75	1	92.2	92.7	92.7	0.58	0.69	0.76
		710	5807/8/9T	31.4	5.5	120%	220%	11	5291	82	1	91.3	92.5	92.7	0.43	0.55	0.63
		594	6806/7/8T	27.6	5.5	110%	230%	25	5952	82	1	91.9	93.4	93.4	0.51	0.64	0.71
200	150	1782	5009/10/11T	26.2	6.0	140%	210%	15	3153	79	1	92.4	93.6	93.6	0.74	0.82	0.85
		1181	5009/10/11T	27.0	6.0	160%	200%	14	3549	77	1	92.8	93.1	93.0	0.71	0.80	0.83
		889	5009/10/11T	29.8	5.9	120%	250%	12	3814	75	1	92.4	93.0	93.0	0.56	0.68	0.75
		710	5810/11/12T	35.5	5.5	120%	220%	11	5589	82	1	91.6	92.8	93.0	0.43	0.55	0.63
		594	6806/7/8T	31.3	5.5	110%	230%	25	6217	82	1	92.2	93.6	93.6	0.51	0.64	0.71
250	185	1782	5009/10/11T	32.1	6.1	140%	210%	15	3351	79	1	93.4	94.0	94.0	0.74	0.82	0.85
		1181	5009/10/11T	33.1	6.2	160%	200%	12	3836	77	1	93.2	93.5	93.5	0.71	0.80	0.83
		889	5009/10/11T	36.3	6.1	130%	250%	12	4079	75	1	92.5	93.0	93.0	0.58	0.69	0.76
		710	5810/11/12T	43.0	5.5	120%	220%	11	5886	82	1	91.8	93.0	93.2	0.44	0.56	0.64
		594	6806/7/8T	38.6	5.5	110%	230%	25	6482	82	1	92.5	93.8	93.8	0.51	0.64	0.71
300	220	3573	5009/10/11TS	36.4	6.5	100%	210%	20	3748	79	1	93.3	94.2	94.2	0.83	0.88	0.89
		1782	5009/10/11T	37.6	6.0	140%	210%	15	3461	79	1	93.7	94.4	94.5	0.74	0.82	0.86
		1182	5009/10/11T	39.2	6.2	160%	200%	12	4123	77	1	93.4	93.8	93.8	0.71	0.80	0.83
		889	5009/10/11T	43.0	6.1	130%	250%	12	4497	75	1	92.9	93.4	93.4	0.57	0.68	0.76
		710	5810/11/12T	51.0	5.5	120%	220%	11	6559	82	1	92.1	93.3	93.5	0.44	0.56	0.64
		594	6806/7/8T	45.7	5.5	110%	230%	25	7077	82	1	92.8	94.2	94.2	0.51	0.64	0.71
350	260	3575	5009/10/11TS	42.8	6.5	100%	210%	18	3968	79	1	93.8	94.7	94.7	0.83	0.88	0.89
		1782	5009/10/11T	44.3	6.2	150%	210%	15	3858	79	1	93.8	94.6	94.8	0.75	0.83	0.86
		1184	5009/10/11T	46.3	7.0	180%	220%	10	4277	77	1	93.6	94.0	94.0	0.69	0.79	0.83
		891	5807/8/9T	49.5	6.0	130%	220%	22	5291	79	1	94.2	94.7	94.7	0.60	0.71	0.77
		713	6806/7/8T	51.5	5.5	90%	200%	28	6471	82	1	93.9	94.6	94.6	0.58	0.69	0.74
		594	6806/7/8T	53.8	5.5	110%	230%	25	7419	82	1	93.1	94.4	94.4	0.51	0.64	0.71
400	300	3575	5009/10/11TS	49.2	6.5	110%	220%	15	4200	79	1	94.2	95.0	95.0	0.83	0.88	0.89
		1783	5009/10/11T	51.1	6.5	160%	220%	15	4255	79	1	94.2	94.7	94.8	0.73	0.83	0.86
		1189	5807/8/9T	54.2	6.0	120%	200%	18	4872	81	1	94.4	94.8	94.8	0.67	0.77	0.81
		891	5810/11/12T	55.6	6.0	130%	220%	22	6217	79	1	94.4	94.8	94.8	0.63	0.74	0.79
		713	6806/7/8T	59.4	5.5	90%	200%	28	6757	82	1	94.1	94.8	94.8	0.58	0.69	0.74
		593	7006/10	65.6	5.5	100%	200%	50	10097	82	1	93.9	94.8	94.8	0.48	0.60	0.67
450	330	3575	5009/10/11TS	54.1	6.5	110%	220%	15	4365	79	1	94.6	95.1	95.1	0.83	0.88	0.89
		1784	5009/10/11T	56.0	6.5	160%	220%	15	4299	79	1	94.3	94.9	95.1	0.73	0.82	0.86
		1189	5807/8/9T	59.5	6.0	120%	200%	18	5247	81	1	94.4	94.9	95.0	0.67	0.77	0.81
		890	5810/11/12T	61.1	6.0	130%	220%	22	6724	79	1	94.7	94.9	94.9	0.64	0.75	0.79
		713	6806/7/8T	64.3	5.5	90%	200%	28	7088	82	1	94.3	95.0	95.0	0.59	0.70	0.75
		593	7006/10	72.0	5.5	100%	200%	50	10615	82	1	94.1	95.0	95.0	0.48	0.60	0.67
500	370	3574	5810/11/12TS	60.8	6.4	100%	220%	20	5600	86	1	93.8	94.8	94.9	0.83	0.88	0.89
		1783	5009/10/11T	62.7	7.0	160%	220%	14	4542	79	1	94.5	94.9	95.3	0.74	0.82	0.86
		1189	5810/11/12T	65.8	6.0	120%	210%	18	6041	81	1	94.8	95.0	95.1	0.69	0.78	0.82
		891	6806/7/8T	65.8	6.4	100%	230%	22	7716	79	1	95.0	95.2	95.2	0.70	0.79	0.82
		713	6806/7/8T	71.9	5.5	90%	200%	28	7463	82	1	94.5	95.2	95.2	0.59	0.70	0.75
		593	7006/10	80.5	5.5	100%	200%	50	11211	82	1	94.3	95.2	95.2	0.48	0.60	0.67
550	400	713	6806/7/8T	76.6	5.5	90%	200%	28	7893	82	1	94.7	95.4	95.4	0.60	0.71	0.76
		593	7006/10	86.9	5.5	100%	200%	50	11872	82	1	94.5	95.4	95.4	0.48	0.60	0.67
600	440	3574	5810/11/12TS	72.1	6.5	100%	220%	20	5886	86	1	94.3	95.1	95.2	0.83	0.88	0.89
		1787	5810/11/12T	74.3	6.6	150%	220%	16	6052	83	1	94.8	95.5	95.6	0.75	0.83	0.86
		1190	5810/11/12T	79.2	6.7	130%	230%	18	6504	81	1	94.8	95.2	95.2	0.66	0.76	0.81
		891	6806/7/8T	78.1	6.4	100%	230%	22	7937	79	1	95.2	95.4	95.4	0.70	0.79	0.82
		713	7006/10	80.0	5.5	90%	200%	31	10395	82	1	95.1	95.4	95.4	0.66	0.76	0.80
650	480	713	7006/10	87.2	5.5	90%	200%	31	10648	82	1	95.2	95.5	95.5	0.66	0.76	0.80
700	515	1788	5810/11/12T	86.8	6.8	150%	220%	20	6393	83	1	94.9	95.6	95.7	0.75	0.83	0.86
		1190	6806/7/8T	90.1	6.8	140%	240%	20	7716	81	1	94.9	95.5	95.6	0.69	0.79	0.83
		892	6809/10/11T	92.3	6.6	120%	250%	22	9789	79	1	95.4	95.6	95.6	0.68	0.78	0.81
		713	7006/10	93.5	5.5	90%	200%	31	10880	82	1	95.3	95.6	95.6	0.66	0.76	0.80
750	560	713	7006/10	101	5.5	90%	200%	31	11475	82	1	95.5	95.8	95.8	0.66	0.76	0.80
800	590	3578	6806/7/8TS	97.4	6.6	130%	250%	20	7496	89	1	94.5	95.4	95.5	0.80	0.86	0.88
		1790	6806/7/8T	101	7.0	150%	240%	20	7716	83	1	94.8	95.7	95.8	0.73	0.82	0.85
		1190	6806/7/8T	102	6.9	140%	240%	20	8157	81	1	95.2	95.6	95.8	0.71	0.80	0.84
		892	6809/10/11T	106	6.6	120%	250%	22	10229	79	1	95.6	95.8	95.8	0.68	0.78	0.81
		713	7006/10	107	5.5	90%	200%	31	11905	82	1	95.6	95.9	95.9	0.66	0.76	0.80
850	630	713	7006/10	114	5.5	90%	200%	31	12170	82	1	95.7	96.0	96.0	0.66	0.76	0.80
900	660	3580	6806/7/8TS	109	7.2	140%	250%	20	7606	89	1	95.0	95.6	95.7	0.80	0.85	0.88
		1790	6806/7/8T	112	7.1	150%	240%	20	8157	83	1	95.0	95.9	96.0	0.73	0.82	0.85
		1190	6809/10/11T	114	7.0	140%	240%	20	9789	81	1	95.4	95.8	96.0	0.71	0.80	0.84
		892	6809/10/11T*	118	6.6	120%	250%	22	10560	79	1	95.7	96.0	96.0	0.67	0.77	0.81
950	700	895	7006/10	123	6.1	70%	220%	30	12291	82	1	95.7	96.0	96.0	0.69	0.79	0.82

HGF Medium Voltage Motors

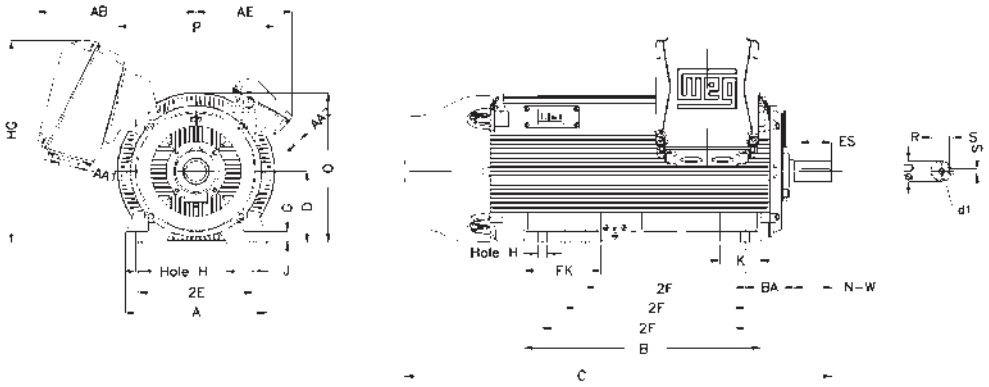
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			4160V								50%	75%	100%	50%	75%	100%
1000	750	3580	6809/10/11TS	123	7.2	140%	250%	20	9925	89	1.00	95.4	95.4	95.8	0.81	0.86	0.88
		1790	6809/10/11T	127	7.2	150%	240%	20	9546	82	1.00	95.0	95.8	95.8	0.73	0.82	0.85
		1190	6809/10/11T	129	6.8	140%	240%	20	10229	78	1.00	95.4	95.8	95.8	0.71	0.80	0.84
		894	7006/10T	132	6.1	70%	220%	30	12621	82	1.00	95.8	95.8	95.8	0.69	0.79	0.82
		595	8806/10T	138	6.0	80%	250%	25	19092	85	1.00	94.7	95.2	95.2	0.63	0.74	0.79
1100	800	3580	6809/10/11TS	131	8.2	150%	270%	20	10476	89	1.00	95.4	95.8	96.2	0.81	0.86	0.88
		1192	7006/10T	134	5.9	80%	240%	23	11294	85	1.00	95.8	96.2	96.2	0.77	0.84	0.86
		894	7006/10T	141	6.2	70%	220%	30	12952	82	1.00	95.8	96.2	96.2	0.70	0.79	0.82
		715	8006/10T	142	6.0	80%	230%	20	14881	81	1.00	95.5	95.6	95.6	0.71	0.80	0.82
		595	8806/10T	147	6.0	80%	250%	25	19577	85	1.00	94.7	95.3	95.3	0.63	0.74	0.79
		1790	6809/10/11T	139	7.8	150%	240%	20	9788	82	1.00	95.0	95.8	95.8	0.71	0.80	0.84
1250	900	3580	6809/10/11TS	147	8.2	150%	250%	20	10752	89	1.00	95.8	96.2	96.2	0.81	0.86	0.88
		3588	7006/10T	144	7.5	70%	230%	20	11955	90	1.00	95.0	95.8	96.2	0.84	0.89	0.90
		1790	6809/10/11T	154	7.5	150%	240%	20	10009	82	1.00	95.4	96.2	96.2	0.71	0.80	0.84
		1193	7006/10T	151	6.1	80%	240%	23	11955	85	1.00	95.8	96.2	96.2	0.76	0.83	0.86
		894	7006/10T	158	6.2	70%	220%	30	13448	82	1.00	95.8	96.2	96.2	0.70	0.79	0.82
		895	8006/10T	157	6.5	70%	240%	30	14947	82	1.00	95.4	95.8	95.8	0.72	0.81	0.83
		715	8806/10T	159	6.5	80%	250%	25	20359	85	1.00	95.6	95.9	95.9	0.68	0.77	0.82
		596	9606/10T	159	6.3	80%	240%	25	28968	85	1.00	95.9	96.0	96.0	0.69	0.78	0.82
1350	1000	3588	7006/10T	160	7.5	70%	230%	20	11955	90	1.00	95.0	95.8	96.2	0.84	0.89	0.90
		1791	7006/10T	165	6.5	70%	240%	20	11739	89	1.00	95.4	96.2	96.2	0.79	0.85	0.87
		1193	7006/10T	167	6.3	80%	240%	23	12291	85	1.00	95.8	96.5	96.5	0.75	0.83	0.86
		895	8006/10T	175	6.5	70%	240%	30	15256	82	1.00	95.4	95.8	95.8	0.72	0.81	0.83
		715	8806/10T	176	6.5	80%	250%	25	21010	85	1.00	95.7	95.9	95.9	0.68	0.77	0.82
		596	9606/10T	176	6.3	80%	240%	25	29872	85	1.00	96.0	96.1	96.1	0.70	0.79	0.82
1500	1100	3588	7006/10T	176	7.5	70%	240%	20	12286	90	1.00	95.4	96.2	96.2	0.84	0.89	0.90
		1791	7006/10T	182	6.5	70%	240%	20	11960	89	1.00	95.4	96.2	96.5	0.79	0.85	0.87
		1194	7006/10T	188	6.8	80%	240%	17	12621	85	1.00	95.8	96.5	96.5	0.74	0.80	0.84
		895	8006/10T	190	6.5	70%	240%	30	16314	82	1.00	95.8	95.8	95.8	0.73	0.81	0.84
		715	8806/10T	194	6.5	80%	250%	25	21759	85	1.00	95.8	96.0	96.0	0.69	0.78	0.82
		596	9606/10T	191	6.3	80%	240%	25	30754	85	1.00	96.1	96.2	96.2	0.70	0.79	0.83
1700	1250	3588	7006/10T	200	7.5	70%	240%	20	12286	90	1.00	95.4	96.2	96.5	0.84	0.89	0.90
		3588	8006/10T	206	7.0	60%	220%	20	16733	92	1.00	94.1	95.4	95.7	0.85	0.88	0.88
		1791	7006/10T	207	6.5	70%	240%	20	12617	89	1.00	95.8	96.5	96.5	0.79	0.85	0.87
		1194	8006/10T	210	7.0	80%	250%	20	16689	85	1.00	95.4	96.2	96.2	0.75	0.83	0.86
		895	8806/10T	216	6.8	80%	250%	20	20481	82	1.00	95.4	95.8	95.8	0.73	0.81	0.84
		716	9606/10T	214	6.5	70%	250%	25	29056	85	1.00	96.2	96.4	96.4	0.72	0.80	0.84
1900	1400	3588	8006/10T	230	7.0	60%	220%	20	17394	92	1.00	94.5	95.4	95.8	0.85	0.88	0.88
		1791	7006/10T	231	6.5	70%	240%	20	12952	89	1.00	95.8	96.5	96.8	0.79	0.85	0.87
		1194	8006/10T	235	7.0	80%	250%	20	17372	85	1.00	95.8	96.2	96.2	0.75	0.83	0.86
		895	8806/10T	238	6.8	80%	250%	20	21892	82	1.00	95.4	96.2	96.2	0.74	0.81	0.85
		716	9606/10T	240	6.5	70%	250%	25	30004	85	1.00	96.3	96.5	96.5	0.72	0.80	0.84
2200	1600	3588	8006/10T	263	7.0	60%	220%	20	17989	92	1.00	94.9	95.8	96.1	0.85	0.88	0.88
		1793	8006/10T	262	7.4	80%	250%	18	16490	92	1.00	95.6	96.3	96.4	0.80	0.85	0.88
		1195	8806/10T	262	7.0	70%	250%	30	19907	90	1.00	95.8	96.2	96.2	0.79	0.86	0.88
		897	9606/10T	264	7.5	80%	280%	25	30952	82	1.00	96.2	96.5	96.5	0.74	0.83	0.87
2500	1800	3587	8006/10T	292	7.0	60%	220%	20	17989	92	1.00	95.0	95.8	96.0	0.86	0.89	0.89
		1793	8006/10T	294	7.4	80%	250%	15	17019	90	1.00	95.8	96.5	96.5	0.80	0.85	0.88
		1195	8806/10T	294	7.0	70%	250%	30	20679	90	1.00	95.8	96.5	96.5	0.79	0.86	0.88
		897	9606/10T	297	7.5	80%	280%	25	31768	82	1.00	96.5	96.8	96.8	0.74	0.83	0.87
2700	2000	1793	8806/10T	326	7.4	80%	250%	20	22906	95	1.00	96.2	96.8	96.8	0.81	0.86	0.88
		1197	9606/10T	323	7.0	60%	250%	25	30622	90	1.00	95.4	96.2	96.5	0.80	0.86	0.89
3000	2250	1796	9606/10T	361	7.3	60%	270%	25	30864	95	1.00	94.5	95.8	96.2	0.83	0.88	0.90
		1197	9606/10T	362	7.0	60%	250%	25	32429	90	1.00	95.8	96.5	96.8	0.81	0.87	0.89
3400	2500	1796	9606/10T	399	7.3	60%	270%	25	32672	95	1.00	95.0	96.2	96.5	0.84	0.89	0.90

HGF Medium Voltage Motors

TEFC - Mechanical Data

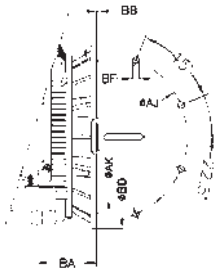
Frame 5006/7/8T to 6809/10/11T



Frame	2E	J	A	P	AB**	AE	2F	K	FK	B	BA	Shaft Extension				
												U	N-W	ES	S	R
5006/7/8T (TS*)	20.000	7.087	24.725	26.575	27.756	15.945	20.000	7.087	10.237	30.315	8.500	2.375*	4,75*	4,33*	0,625*	2,021*
							22.000					3.625	10.625	9.055	0.875	3.134
5009/10/11T (TS*)							25.000					2.375*	4,75*	4,33*	0,625*	2,021*
							28.000		13.386	41.339		3.625	10.625	9.055	0.875	3.134
							32.000									
							36.000									
5807/8/9T (TS*)	23.000	9.055	29.528	30.118	28.937	16.929	25.000	7.874	14.961	39.370	10.000	2.375*	4,75*	4,33*	0,625*	2,021*
							28.000					3.875	11.625	9.842	1.000	3.309
5810/11/12T (TS*)							32.000			51.181		2.375*	4,75*	4,33*	0,625*	2,021*
							36.000					3.875	11.625	9.842	1.000	3.309
							40.000									
							45.000									
6806/7/8T (TS*)	27.000	8.583	33.071	34.449	30.512	18.504	28.000	8.661	14.173	42.126	11.500	2.750*	5,75*	4,33*	0,625*	2,402*
							32.000					4.375	11.625	9.842	1.000	3.817
6809/10/11T (TS*)							36.000		16.338	56.102		2.750*	5,75*	4,33*	0,625*	2,402*
							40.000									
							45.000					4.375	11.625	9.842	1.000	3.817
							50.000									

Frame	D	G	O	HG**	H	H´	C	d1	AA1	AA2	Bearings			
											HGF Standard		HGF API 541	
											D.E.	N.D.E.	D.E.	N.D.E.
5006/7/8TS	12.500	1.968	25.886	34.941	1.181	1.575	61.049	UNC 3/4"	2xNPT3"	3xNPT3/4"	6314	6314	6314	6314
5006/7/8T							66.924	UNC 7/8"			6320	6316	6320	6320
5009/10/11TS							72.860	UNC 3/4"			6314	6314	6314	6314
5009/10/11T							78.735	UNC 7/8"			6320	6316	6320	6320
5807/8/9TS	14.500	2.492	29.657	37.925		1.968	69.120	UNC 3/4"			6314	6314	6314	6314
5807/8/9T							75.995	UNC 7/8"			6322	6320	6322	6322
5810/11/12TS							80.931	UNC 3/4"			6314	6314	6314	6314
5810/11/12T							87.806	UNC 7/8"			6322	6320	6322	6322
6806/7/8TS	17.000	3.220	34.323	42.000	1.417	2.205	83.589	UNC 3/4"			6315	6315	6315	6315
6806/7/8T							89.464	UNC 1"			NU224	6320	6324	6324
6809/10/11TS							95.400	UNC 3/4"			6315	6315	6315	6315
6809/10/11T							101.275	UNC 1"			NU224	6320	6324	6324

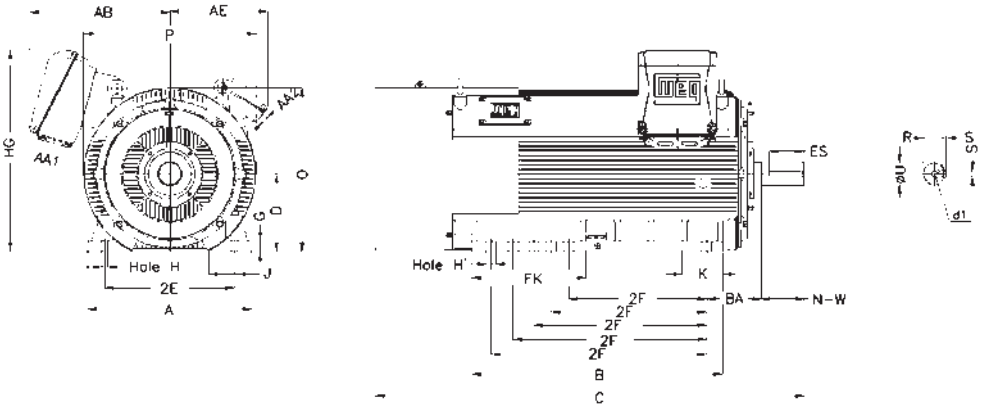
Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
5006/7/8T	D 558	8.5	22.000	18.000	24.000	1.000	0.250	8
5009/10/11T								
5807/8/9T	D 762	10.000	30.000	28.000	32.000	1.000		
5810/11/12T								
6806/7/8T	D 895	11.500	35.250	33.250	37.250	1.000		
6809/10/11T								



HGF Medium Voltage Motors

TEFC - Mechanical Data

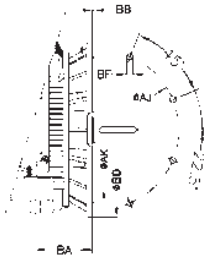
Frame 7006/10T to 9606/10T



Frame	2E	J	A	P	AB**	AE	2F	K	FK	B	BA	Shaft Extension				
												U	N-W	ES	S	R
7006/10	30	9.961	37.402	39.370	32.087	21.260	32.000	9.134	26.063	57.087	12.402	3,375*	6,75*	5,512*	0,875*	2,88*
							36.000									
							40.000									
							45.000					5.125	11.625	9.842	1.250	4.423
							50.000									
8006/10	34	11.000	41.500	43.500	43.700	21.500	36.000	12.000	17.800	66.000	14.000					
							40.000									
							45.000					4.750	11.625	-	1.250	4.041
							50.000									
							56.000									
8806/10	38	12.600	47.200	48.000	45.000	24.500	40.000	15.700	19.700	74.800	15.000					
							45.000									
							50.000					5.125	11.625	-	1.250	4.423
							56.000									
							63.000									
9606/10	49	12.600	60.000	54.300	48.400	24.500	36.000	15.700	19.700	74.600	17.500					
							40.000									
							45.000					6.000	11.625	-	1.500	5.155
							50.000									
							56.000									

Frame	D	G	O	HG**	H	H'	C	d1	AA1	AA2	Bearings			
											HGF Standard		HGF API 541	
											D.E.	N.D.E.	D.E.	N.D.E.
7006/10	17.5	2.165	37.185	45.256	1.417	2.205	104,585	UNC7/8*	2XNPT3"	3XNPT3/4	6220	6220	6220	6220
							99.617	UNC1 1/4			6328	6324	6328	6328
8006/10	20	2.900	41.500	52.500	1.700	-	108.5	UNC 1			6330	6324	6330	6330
8806/10	22	2.700	46.000	57.800	1.700	-	114	UNC 1 1/4			NU228+6228	NU224	-	-
9606/10	24	3.100	51.200	53.000	1.700	-	126.9	UNC 1 1/4			Nu232+6232	NU224	-	-

Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
7006/10	FF 1080	12.402	42.520	39.370	45.275	1.102	0.236	8
8006/10	FF - 1180	14.764	46.457	44.094	43.307	1.102		
8806/10	-	-	-	-	-	-		
9606/10	-	-	-	-	-	-		



W50 Low Voltage Motors
TEFC

Standard Features

- Rated output: 125HP to 1500HP
- Number of poles: 2 to 12
- Frame sizes: 5009/10 to 7008/09
- Frequency: 60 Hz
- Voltage: 380 to 690V
- Service factor: 1,00
- Class of insulation: F
- Temperature rise: 80°C
- Ambient temperature: 40°C
- Altitude: 1000 m
- Starting method: DOL
- Degree of Protection: IP55
- Service duty: (S1)
- Mounting: F1 or F2
- Vertical Jacking Provisions
- Provisions for vibration devices 2 per bearing
- Main Terminal Box field reversible (F1 or F2)
- Cooling method: TEFC – Totally enclosed fan cooled (IC411)
- Frame, endshields, fan cover and terminal box material: FC-200 cast iron
- Shaft material: AISI 4140
- Thermal protection:
  - Windings: Pt-100 3 wire, 2 per phase
  - Bearings: Pt-100 3 wire, 1 per bearing
- Grease lubricated ball bearings
- Bearing seal: Taconite labyrinth
- Vibration Level: Grade A according IEC 60034-14
- Lubrication: Mobil Polyrex EM Grease
- Paint plan:
  - 214P - Frames up to 6800
  - 212P - Frame 7000
- Color: RAL 5009 (Blue)
- Dual Voltage Space Heaters
- Automatic drain plug
- Aluminum fan
- Copper bar rotor:
  - 2, 4, 6 and 8 poles 7008/09 frame and above
  - 10 and 12 poles 6806/07 frame and above
- Stiff shaft design
- Electrically insulated non-drive end bearing

Optional Features

- 50Hz
- Degree of Protection: IP56, IP65, IP66
- Cooling method: TEBC – Totally enclosed blower cooled (IC 416)
- Service factor: 1.15
- Sleeve bearings
- Insulated drive end bearing for inverter duty applications
- Cylindrical roller bearing
- Bearing design for vertical mounting normal and high thrust applications
- Seal: INPRO/SEAL®
- Vibration level: Grade B according IEC 60034-14
- Bearing and winding thermal protection: thermistors or thermostats
- Cable glands
- Drip proof canopy for shaft down applications
- Internal tropicalized painting
- Encoder
- Suitable for VFD applications
- Main terminal box in welded steel
- Additional terminal box: For “Y” connection with access to the neutral terminal
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Stainless steel fasteners
- Steel welded t-box in different sizes
- Encoder
- Copper bar rotor
- Vibration detector
- Protection against voltage surge
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Class 1 Division 2, CSA
- EX ‘n’ (Zone 2) ATEX or IECEx

W50 Low Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			460V	575V								50%	75%	100%	50%	75%	100%
125	90	710	5009/10	173	138	5.5	150%	200%	15	2903	75	1.00	91.7	93.0	93.0	0.51	0.63	0.70
150	110	710	5009/10	212	170	5.5	150%	200%	15	3091	75	1.00	92.4	93.0	93.0	0.51	0.63	0.70
175	132	710	5009/10	253	202	5.5	150%	200%	15	3466	75	1.00	92.4	93.6	93.6	0.51	0.63	0.70
		593	5809/10	263	210	4.5	120%	170%	20	4460	82	1.00	93.6	94.1	94.1	0.50	0.61	0.67
200	150	710	5009/10	286	229	5.8	160%	200%	15	3710	75	1.00	92.4	93.6	94.1	0.51	0.63	0.70
		593	5809/10	298	238	4.5	120%	170%	20	4535	82	1.00	93.6	94.1	94.1	0.50	0.61	0.67
250	185	888	5009/10	298	238	5.5	120%	230%	26	3494	75	1.00	94.5	95.0	95.0	0.70	0.78	0.82
		713	5809/10	368	294	5.5	130%	220%	20	4310	75	1.00	93.0	93.6	94.1	0.48	0.60	0.67
		592	5809/10	363	290	4.5	120%	170%	20	5284	82	1.00	93.6	94.1	94.1	0.50	0.62	0.68
300	220	1182	5009/10	331	265	6.4	130%	210%	16	3316	77	1.00	94.5	95.0	95.8	0.77	0.84	0.87
		889	5009/10	355	284	5.5	120%	250%	21	3759	75	1.00	94.5	95.0	95.0	0.68	0.78	0.82
		710	5809/10	429	343	5.6	160%	190%	20	5060	75	1.00	93.0	94.1	94.5	0.49	0.61	0.68
		592	6808/09	385	308	5.0	100%	200%	20	6484	82	1.00	94.1	94.1	94.5	0.57	0.69	0.76
350	260	3579	5009/10	379	303	6.5	90%	250%	24	3373	79	1.00	94.5	95.4	95.8	0.84	0.88	0.90
		1182	5009/10	391	313	6.4	130%	210%	16	3485	77	1.00	94.5	95.4	95.8	0.77	0.85	0.87
		892	5809/10	419	335	5.5	120%	230%	21	4215	75	1.00	94.5	95.0	95.0	0.68	0.78	0.82
		713	5809/10	508	406	6.0	130%	220%	20	5622	75	1.00	93.6	94.5	94.5	0.49	0.61	0.68
		592	6808/09	452	362	5.5	100%	200%	20	6812	82	1.00	94.1	94.5	95.0	0.57	0.69	0.76
400	300	3577	5009/10	437	350	6.5	100%	250%	24	3521	79	1.00	95.0	95.8	95.8	0.86	0.89	0.90
		1784	5009/10	455	364	7.0	130%	250%	20	3373	79	1.00	95.0	95.8	96.2	0.75	0.83	0.86
		1188	5809/10	462	370	6.3	120%	250%	26	4131	77	1.00	95.0	95.8	95.8	0.74	0.83	0.85
		891	5809/10	483	386	5.5	120%	230%	23	4403	75	1.00	95.0	95.4	95.0	0.68	0.78	0.82
		714	6806/07	506	405	5.5	100%	220%	22	6259	79	1.00	94.1	95.0	95.4	0.60	0.72	0.78
		593	6808/09	521	417	5.5	90%	200%	20	8133	82	1.00	94.1	94.5	95.0	0.59	0.69	0.76
450	330	3575	5009/10	475	380	6.8	100%	250%	24	3726	79	1.00	95.4	95.8	95.8	0.85	0.89	0.91
		1784	5009/10	500	400	7.0	130%	250%	19	3505	79	1.00	95.0	95.8	96.2	0.75	0.83	0.86
		1188	5809/10	509	407	6.3	120%	250%	26	4310	77	1.00	95.4	95.8	95.8	0.75	0.83	0.85
		892	5809/10	532	426	5.7	120%	230%	17	5284	75	1.00	95.0	95.4	95.0	0.68	0.78	0.82
		714	6806/07	557	446	5.5	100%	220%	22	6709	79	1.00	94.5	95.4	95.4	0.60	0.72	0.78
		595	7008/09	566	453	5.5	80%	190%	40	8534	82	1.00	94.5	95.0	95.0	0.61	0.71	0.77
500	370	3573	5809/10	537	430	6.3	90%	240%	45	4830	82	1.00	95.4	95.8	96.2	0.86	0.89	0.90
		1784	5009/10	561	449	7.1	130%	250%	19	3598	79	1.00	95.4	95.8	96.2	0.76	0.84	0.86
		1188	5809/10	563	450	6.3	130%	250%	26	5060	77	1.00	95.4	95.8	95.8	0.75	0.83	0.86
		893	6806/07	594	475	6.6	110%	230%	22	6349	79	1.00	95.0	95.4	95.4	0.67	0.78	0.82
		714	6808/09	622	498	5.5	100%	220%	22	6914	79	1.00	95.0	95.4	95.8	0.60	0.72	0.78
		595	7008/09	632	506	5.5	80%	190%	40	8713	82	1.00	94.5	95.0	95.4	0.61	0.71	0.77
550	400	714	6808/09	671	537	5.5	100%	220%	22	7363	79	1.00	95.4	95.8	95.8	0.60	0.72	0.78
		595	7008/09	681	545	5.5	80%	190%	40	8975	82	1.00	95.0	95.4	95.8	0.61	0.71	0.77
600	440	3583	5809/10	645	516	6.7	90%	220%	36	5185	82	1.00	95.4	96.2	96.2	0.81	0.88	0.89
		1788	5809/10	661	529	6.5	150%	230%	33	5434	82	1.00	95.6	96.0	96.0	0.79	0.85	0.87
		1188	5809/10	671	537	6.4	130%	250%	25	5434	77	1.00	95.4	95.8	95.8	0.75	0.83	0.86
		893	6806/07	703	562	6.6	110%	230%	22	6746	79	1.00	95.0	95.8	95.8	0.67	0.78	0.82
		714	6808/09	736	589	5.5	100%	220%	22	7588	79	1.00	95.4	96.2	96.2	0.60	0.72	0.78
		595	7008/09	749	599	5.5	80%	190%	40	9462	82	1.00	95.4	95.4	95.8	0.61	0.71	0.77
650	480	714	7008/09	773	618	6.2	80%	220%	25	8937	79	1.00	95.4	95.8	96.2	0.67	0.77	0.81
		595	7008/09	806	645	5.5	80%	190%	40	9744	82	1.00	95.4	95.4	95.8	0.62	0.72	0.78
700	515	3576	5809/10	738	590	6.5	90%	230%	45	5392	82	1.00	95.8	96.2	96.2	0.86	0.90	0.91
		1788	5809/10	772	618	6.5	150%	230%	33	5434	82	1.00	95.8	96.2	96.2	0.79	0.85	0.87
		1192	6806/07	790	632	6.3	130%	250%	18	6772	81	1.00	95.4	95.8	96.2	0.71	0.81	0.85
		893	6808/09	823	658	6.6	110%	230%	22	7121	79	1.00	95.0	95.8	95.8	0.67	0.78	0.82
		714	7008/09	829	663	6.2	80%	220%	25	9182	79	1.00	95.7	95.8	96.2	0.67	0.77	0.81
		595	7008/09	865	692	5.5	80%	190%	40	9949	82	1.00	95.4	95.8	95.8	0.62	0.72	0.78
750	560	714	7008/09	902	722	6.2	80%	220%	25	9407	79	1.00	95.7	95.8	96.2	0.67	0.77	0.81
		595	7008/09	936	749	5.5	80%	190%	40	10531	82	1.00	95.4	95.8	96.2	0.62	0.72	0.78
800	590	3580	6808/09	844	675	6.7	130%	240%	26	6814	82	1.00	95.4	95.8	96.5	0.84	0.90	0.91
		1788	6806/07	903	722	7.3	120%	210%	17	6651	82	1.00	95.8	96.2	96.5	0.74	0.82	0.85
		1192	6808/09	916	733	6.3	130%	220%	20	7121	81	1.00	95.8	96.2	96.2	0.69	0.80	0.84
		895	7008/09	918	734	5.9	70%	210%	26	10445	79	1.00	95.6	96.0	96.0	0.70	0.80	0.84
		714	7008/09	951	761	6.2	80%	220%	25	9649	79	1.00	95.7	96.2	96.2	0.67	0.77	0.81
850	630	895	7008/09	976	781	5.9	70%	210%	26	10445	79	1.00	95.8	96.2	96.2	0.70	0.80	0.84
		714	7008/09	1014	811	6.2	80%	220%	25	9940	82	1.00	95.7	96.2	96.4	0.67	0.77	0.81
900	660	3580	6808/09	957	766	6.9	100%	240%	26	7057	82	1.00	95.4	96.2	96.5	0.84	0.89	0.90
		1788	6808/09	1014	811	7.3	150%	220%	16	7026	82	1.00	95.8	96.5	96.5	0.76	0.82	0.85
		1192	6808/09	1023	818	6.5	140%	240%	20	8507	81	1.00	95.8	96.2	96.2	0.69	0.80	0.84
		895	7008/09	1023	818	5.9	70%	210%	26	10723	79	1.00	95.8	96.2	96.2	0.70	0.80	0.84

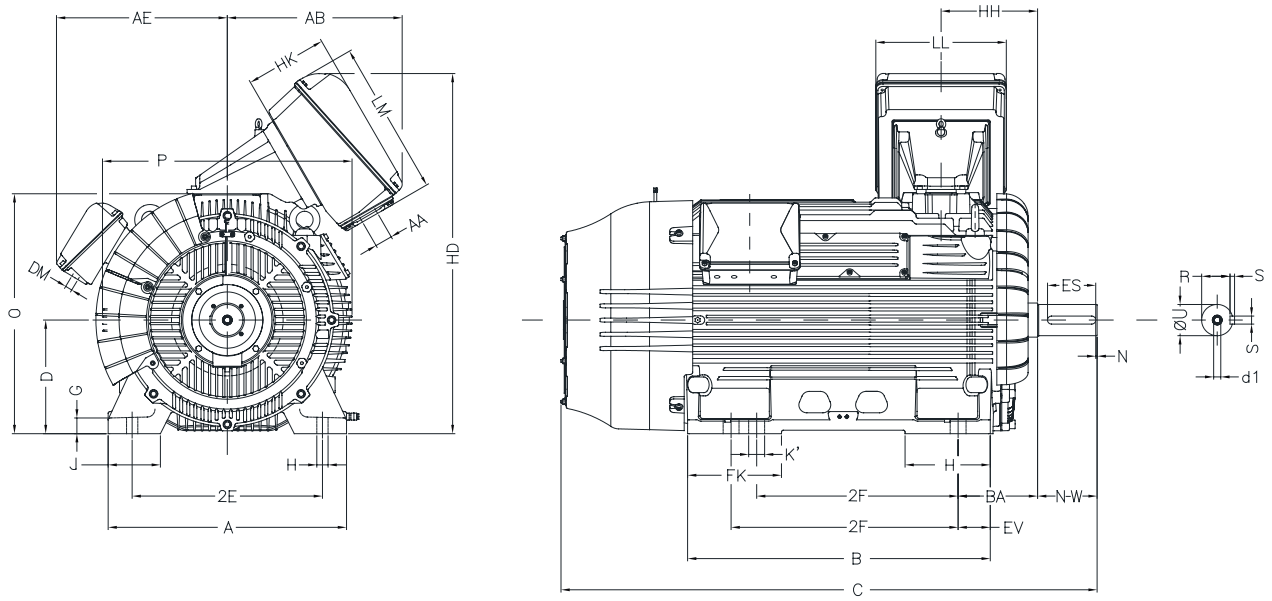
W50 Low Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			460V	575V								50%	75%	100%	50%	75%	100%
950	700	1193	7008/09	1052	842	6.5	70%	230%	20	10165	81	1.00	95.8	96.2	96.2	0.78	0.84	0.87
		895	7008/09	1081	865	5.9	70%	210%	26	11007	79	1.00	95.8	96.2	96.5	0.70	0.80	0.84
1000	750	3580	6808/09	1071	857	7.4	140%	250%	26	7339	82	1.00	95.8	96.2	96.5	0.85	0.90	0.91
		1790	6808/09	1138	910	7.3	150%	210%	18	8300	82	1.00	96.2	96.5	96.5	0.76	0.83	0.86
		1193	7008/09	1119	895	6.5	70%	230%	20	10163	81	1.00	95.8	96.2	96.5	0.78	0.84	0.87
		895	7008/09	1148	918	5.9	70%	210%	26	11402	79	1.00	95.8	96.2	96.5	0.72	0.81	0.85
1100	800	1792	7008/09	1196	957	7.0	70%	240%	20	9603	82	1.00	95.6	96.3	96.3	0.76	0.84	0.87
		1194	7008/09	1196	957	6.5	70%	230%	20	10445	81	1.00	95.8	96.5	96.5	0.78	0.84	0.87
1250	900	1792	7008/09	1349	1079	7.0	70%	240%	20	9603	82	1.00	95.8	96.5	96.5	0.76	0.84	0.87
		1194	7008/09	1358	1086	6.7	70%	230%	20	11007	81	1.00	96.2	96.5	96.5	0.76	0.84	0.86
1350	1000	1792	7008/09	1492	1194	7.3	70%	240%	20	10165	82	1.00	95.8	96.8	96.8	0.76	0.84	0.87
		1194	7008/09	1511	1209	6.5	70%	230%	20	11007	81	1.00	96.2	96.8	96.8	0.76	0.84	0.86
1500	1100	1792	7008/09	1636	1309	7.0	70%	240%	20	10445	82	1.00	95.8	96.8	96.8	0.76	0.84	0.87

W50 Low Voltage Motors

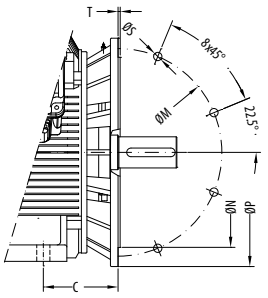
TEFC - Mechanical Data



Frame	# of Poles	2E	J	A	P	AB	AE	2F	K	B	FK	EV	H	SHAFT END					
														U	N-W	ES	N	S	R
5009/10	2	20.000	5.276	24.724	27.795	24.378	21.339	28.000/ 32.000	11.120	32.677	11.120	3.150	1.181	2.375	4.750	4.331	0.197	0.625	2.020
	4/6/8													3.625	10.625	9.055		0.875	3.134
5809/10	2	23.000	5.793	29.528	31.102		22.402	32.000/ 36.000	11.596	42.415	11.596	3.583		2.375	4.750	4.331		0.625	2.020
	4/6/8													3.875	11.625	9.843		1.000	3.307
6806/07	2	27.000	7.064	33.071	34.646		23.697	28.000/ 32.000	11.740	42.226	12.921	4.575	2.205	3.250	5.750	4.331		0.750	2.831
	4/6/8													4.375	11.625	9.843		1.000	3.817
6808/09	2		7.015					36.000/ 40.000	11.737	48.126	11.737			3.250	5.750	4.331		0.750	2.831
	4/6/8													4.735	11.625	9.843		1.000	3.817
7006/07	2	30.000	8.145	37.008	38.740		24.095	32.000/ 36.000	13.841	48.728	15.219	5.157		3.375	6.750	5.512		0.875	2.880
	4/6/8													5.125	11.625	9.843		1.250	4.423
7008/09	2							40.000/ 45.000		54.633	13.841			3.375	6.750	5.512		0.875	2.880
	4/6/8													5.125	11.625	9.843		1.250	4.423

Frame	# of Poles	C	D	G	O	HD	HH	HK	H	K'	BA	LL	LM	d1	AA	DM	BEARINGS	
																	D.E.	N.D.E.
5009/10	2	64.159	12.500	2.073	26.083	42.733	12.628	11.410	1.181	1.575	8.504	18.110	21.429	UNC3/4"	2xNPT 3"	3xNPT 3/4"	6314 C3	6314 C3
	4/6/8	70.035												UNC7/8"			6320 C3	6316 C3
5809/10	2	71.089	14.500	1.974	30.051	46.701	13.740			1.890	10.000			UNC3/4"	2xNPT 4"		6314 C3	6314 C3
	4/6/8	77.964												UNC7/8"			6322 C3	6319 C3
6806/07	2	72.348	17.000	1.967	34.520	51.170	13.862		1.417	2.205	11.500			UNC3/4"			6218 C3	6218 C3
	4/6/8	78.224												UNC 1"			6324 C3	6319 C3
6808/09	2	78.254		1.974										UNC3/4"			6218 C3	6218 C3
	4/6/8	84.129												UNC 1"			6324 C3	6319 C3
7006/07	2	79.742	17.500	2.467	36.870	53.517	13.780							UNC7/8"			6220 C3	6220 C3
	4/6/8	84.617												UNC1 1/4"			6328 C3	6322 C3
7008/09	2	85.648												UNC7/8"			6220 C3	6220 C3
	4/6/8	90.523												UNC1 1/4"			6328 C3	6322 C3

Frame	Flange	C	M	N	P	S	T	N° holes
5009/10	FF-600	8.504	23.622	21.653	25.984	0.945	0.236	0.315
5809/10	FF-740	10.000	29.134	26.772	31.496			
6806/07	FF-940	11.024	37.008	34.650	39.370	1.102		
6808/09								
7006/07	FF-1080	11.500	42.520	39.370	45.276			
7008/09								



W50 Medium Voltage Motors
TEFC

Standard Features

- Rated output: 175HP to 1500HP
- Number of poles: 2 to 12
- Frame sizes: 5009/10 to 7008/09
- Frequency: 60 Hz
- Voltage: 1.2kV to 6.6kV
- Service factor: 1,00
- Class of insulation: F
- Temperature rise: 80°C
- Ambient temperature: 40°C
- Altitude: 1000 m
- Starting method: DOL
- Degree of Protection: IP55
- Service duty: (S1)
- Mounting: F1 or F2
- Vertical Jacking Provisions
- Provisions for vibration devices 2 per bearing
- Main Terminal Box field reversible (F1 or F2)
- Cooling method: TEFC – Totally enclosed fan cooled (IC411)
- Frame, endshields, fan cover and terminal box material: FC-200 cast iron
- Shaft material: AISI 4140
- Thermal protection:
  - Windings: Pt-100 3 wire, 2 per phase
  - Bearings: Pt-100 3 wire, 1 per bearing
- Grease lubricated ball bearings
- Bearing seal: Taconite labyrinth
- Vibration Level: Grade A according IEC 60034-14
- Lubrication: Mobil Polyrex EM Grease
- Paint plan:
  - 214P - Frames up to 6800
  - 212P - Frame 7000
- Color: RAL 5009 (Blue)
- Dual Voltage Space Heaters
- Automatic drain plug
- Aluminum fan
- Copper bar rotor:
  - 2, 4, 6 and 8 poles 7008/09 frame and above
  - 10 and 12 poles 6806/07 frame and above
- Stiff shaft design
- Electrically insulated non-drive end bearing

Optional Features

- 50Hz
- Degree of Protection: IP56, IP65, IP66
- Cooling method: TEBC – Totally enclosed blower cooled (IC 416)
- Service factor: 1.15
- Sleeve bearings
- Insulated drive end bearing for inverter duty applications
- Cylindrical roller bearing
- Shaft grounding brush
- Bearing design for vertical mounting normal and high thrust applications
- Seal: INPRO/SEAL®
- Vibration level: Grade B according IEC 60034-14
- Bearing and winding thermal protection: thermistors or thermostats
- Cable glands
- Drip proof canopy for shaft down applications
- Internal tropicalized painting
- Encoder
- Suitable for VFD applications
- Main terminal box in welded steel
- Additional terminal box: For “Y” connection with access to the neutral terminal
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Stainless steel fasteners
- Steel welded t-box in different sizes
- Encoder
- Copper bar rotor
- Vibration detector
- Protection against voltage surge
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Class 1 Division 2, CSA
- EX ‘n’ (Zone 2) ATEX or IECEx

W50 Medium Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)				Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			2300V	4000V	4160V	6600V								50%	75%	100%	50%	75%	100%
175	132	888	5009/10	47.0	27.0	26.0	16.4	5.8	120%	250%	12	3197	75	1.00	92.2	92.7	92.7	0.58	0.69	0.76
		710	5809/10	56.8	32.7	31.4	19.8	5.5	120%	220%	11	4519	75	1.00	91.3	92.5	92.7	0.43	0.55	0.63
200	150	3576	5009/10	45.8	26.3	25.3	15.9	6.5	110%	220%	20	3395	79	1.00	91.4	92.7	93.6	0.83	0.87	0.88
		889	5009/10	53.9	31.0	29.8	18.8	5.9	120%	250%	12	3307	75	1.00	92.4	93.0	93.0	0.56	0.68	0.75
		710	5809/10	64.2	36.9	35.5	22.4	5.5	190%	220%	11	4828	75	1.00	91.6	92.8	93.0	0.43	0.55	0.63
250	185	3576	5009/10	55.0	31.6	30.4	19.2	6.5	110%	220%	20	3483	79	1.00	92.4	93.6	95.0	0.83	0.87	0.89
		1781	5009/10	58.2	33.5	32.2	20.3	6.2	110%	200%	20	3395	79	1.00	93.0	94.1	95.0	0.70	0.81	0.84
		1189	5009/10	61.9	35.6	34.2	21.6	6.5	110%	240%	21	3880	77	1.00	93.6	94.1	95.0	0.64	0.74	0.79
		889	5009/10	65.7	37.8	36.3	22.9	6.1	130%	250%	12	3527	75	1.00	92.5	93.0	93.0	0.58	0.69	0.76
		710	5809/10	77.8	44.7	43.0	27.1	5.5	170%	220%	11	5115	75	1.00	91.8	93.0	93.2	0.44	0.56	0.64
300	220	3577	5009/10	65.3	37.5	36.1	22.8	6.5	110%	220%	18	3593	79	1.00	93.6	94.1	95.0	0.83	0.88	0.89
		3570	5809/10	64.6	37.1	35.7	22.5	6.5	100%	240%	25	4431	82	1.00	93.6	94.5	95.0	0.86	0.89	0.90
		1782	5009/10	69.3	39.8	38.3	24.1	6.2	110%	210%	19	3505	79	1.00	93.0	94.1	95.0	0.71	0.81	0.84
		1190	5009/10	73.6	42.3	40.7	25.7	6.5	110%	240%	24	4056	77	1.00	93.6	94.1	95.0	0.64	0.74	0.79
		1185	5809/10	72.7	41.8	40.2	25.3	6.5	130%	240%	18	5004	77	1.00	93.6	94.1	95.0	0.65	0.78	0.80
		889	5009/10	77.8	44.7	43.0	27.1	6.1	130%	250%	12	3946	75	1.00	92.9	93.4	93.4	0.57	0.68	0.76
		710	5809/10	92.2	53.0	51.0	32.1	5.5	170%	220%	11	5842	75	1.00	92.1	93.3	93.5	0.44	0.56	0.64
350	260	3577	5009/10	76.5	44.0	42.3	26.7	6.5	110%	220%	17	3682	79	1.00	93.6	94.5	95.0	0.84	0.88	0.90
		3570	5809/10	76.3	43.9	42.2	26.6	6.5	100%	240%	25	4762	82	1.00	93.6	94.5	95.0	0.86	0.89	0.90
		1782	5009/10	81.8	47.0	45.2	28.5	6.2	110%	210%	19	3704	79	1.00	93.7	94.5	95.0	0.71	0.81	0.84
		1786	5809/10	81.8	47.0	45.2	28.5	6.2	140%	220%	30	4916	82	1.00	93.6	94.5	95.0	0.75	0.80	0.84
		1189	5009/10	87.0	50.0	48.1	30.3	6.5	110%	240%	23	4211	77	1.00	93.6	94.1	95.0	0.64	0.74	0.79
		1185	5809/10	85.9	49.4	47.5	29.9	6.5	130%	240%	18	5203	77	1.00	93.6	94.1	95.0	0.65	0.78	0.80
		891	5809/10	89.5	51.5	49.5	31.2	6	130%	220%	22	4519	75	1.00	94.2	94.7	94.7	0.60	0.71	0.77
		713	6806/07	93.1	53.6	51.5	32.5	5.5	90%	200%	28	5368	79	1.00	93.9	94.6	94.6	0.58	0.69	0.74
400	300	3577	5009/10	87.9	50.5	48.6	30.6	6.5	110%	220%	17	3858	79	1.00	94.1	94.5	95.0	0.84	0.88	0.90
		3570	5809/10	88.1	50.6	48.7	30.7	6.5	100%	240%	25	4960	82	1.00	93.6	94.5	95.0	0.86	0.89	0.90
		3577	6806/07	88.6	51.0	49.0	30.9	6.5	90%	240%	20	6019	82	1.00	94.5	95.0	95.4	0.85	0.88	0.89
		1785	5009/10	94.4	54.3	52.2	32.9	6.2	120%	230%	18	4012	79	1.00	94.1	94.5	95.0	0.73	0.81	0.84
		1786	5809/10	94.4	54.3	52.2	32.9	6.2	140%	220%	30	5093	82	1.00	93.6	94.5	95.0	0.75	0.80	0.84
		1187	5809/10	99.1	57.0	54.8	34.5	6.5	150%	240%	18	5269	77	1.00	94.1	94.5	95.0	0.65	0.78	0.80
		891	5809/10	100.4	57.7	55.5	35.0	6	130%	220%	22	5401	75	1.00	94.1	94.5	95.0	0.63	0.74	0.79
		713	6806/07	107.4	61.8	59.4	37.4	5.5	90%	200%	28	5655	79	1.00	94.1	94.8	94.8	0.58	0.69	0.74
		593	7006/07	118.7	68.2	65.6	41.3	5.5	100%	200%	50	8598	79	1.00	93.9	94.8	94.8	0.48	0.60	0.67
450	330	3577	5009/10	96.9	55.7	53.6	33.8	6.6	110%	220%	16	3946	79	1.00	94.5	95.0	95.0	0.84	0.89	0.90
		3570	5809/10	96.4	55.4	53.3	33.6	6.6	100%	240%	20	4850	82	1.00	94.5	95.0	95.4	0.87	0.89	0.90
		1785	5009/10	103.8	59.7	57.4	36.2	6.2	120%	230%	17	4167	79	1.00	94.5	94.5	95.0	0.75	0.81	0.84
		1787	5809/10	103.8	59.7	57.4	36.2	6.2	140%	220%	30	5269	82	1.00	94.1	95.0	95.0	0.75	0.80	0.84
		1186	5809/10	109.1	62.7	60.3	38.0	6.5	150%	240%	18	5379	77	1.00	94.1	94.5	95.0	0.65	0.78	0.80
		890	5809/10	110.3	63.4	61.0	38.4	6	180%	220%	22	5952	75	1.00	94.5	94.5	95.0	0.64	0.75	0.79
		713	6806/07	116.3	66.9	64.3	40.5	5.5	90%	200%	28	5974	79	1.00	94.3	95.0	95.0	0.59	0.70	0.75
		593	7006/07	130.2	74.9	72.0	45.4	5.5	100%	200%	50	9149	79	1.00	94.1	95.0	95.0	0.48	0.60	0.67
500	370	3570	5809/10	108.2	62.2	59.8	37.7	6.5	100%	240%	20	5181	82	1.00	94.5	95.0	95.4	0.87	0.89	0.90
		3577	6806/07	109.4	62.9	60.5	38.1	6.5	90%	240%	20	6195	82	1.00	94.5	95.0	95.4	0.85	0.88	0.89
		1787	5809/10	115.9	66.7	64.1	40.4	6.2	140%	220%	25	5423	82	1.00	94.1	95.0	95.4	0.75	0.80	0.84
		1188	5809/10	122.3	70.3	67.6	42.6	6.5	130%	240%	18	5578	77	1.00	94.1	94.5	95.0	0.65	0.78	0.80
		891	6806/07	119.2	68.5	65.9	41.5	6.4	100%	230%	22	6944	79	1.00	95.0	95.0	95.0	0.70	0.79	0.82
		713	6808/09	130.0	74.8	71.9	45.3	5.5	90%	200%	28	6371	79	1.00	94.5	95.2	95.2	0.59	0.70	0.75
		593	7006/07	145.6	83.7	80.5	50.7	5.5	100%	200%	50	9700	79	1.00	94.3	95.2	95.2	0.48	0.60	0.67
550	400	3570	5809/10	116.5	67.0	64.4	40.6	6.6	100%	240%	20	5379	82	1.00	95.0	95.4	95.8	0.87	0.89	0.90
		3577	6806/07	117.0	67.3	64.7	40.8	6.6	90%	250%	20	6305	82	1.00	94.5	95.4	95.4	0.86	0.89	0.90
		1788	5809/10	125.3	72.1	69.3	43.7	6.3	150%	230%	25	5600	82	1.00	94.1	95.0	95.4	0.74	0.80	0.84
		1188	5809/10	132.0	75.9	73.0	46.0	6.5	130%	240%	18	5754	77	1.00	94.1	94.5	95.0	0.64	0.78	0.80
		1193	6806/07	126.8	72.9	70.1	44.2	6.5	100%	240%	25	6371	81	1.00	94.5	95.0	95.4	0.70	0.75	0.83
		713	6808/09	138.5	79.7	76.6	48.3	5.5	90%	200%	28	6790	79	1.00	94.7	95.4	95.4	0.60	0.71	0.76
		593	7006/07	157.2	90.4	86.9	54.8	5.5	100%	200%	50	10362	79	1.00	94.5	95.4	95.4	0.48	0.60	0.67
600	440	3577	6806/07	128.1	73.6	70.8	44.6	6.7	90%	240%	20	6327	82	1.00	95.0	95.4	95.8	0.86	0.89	0.90
		1788	5809/10	137.8	79.2	76.2	48.0	6.2	150%	220%	25	5644	82	1.00	95.0	95.4	95.4	0.74	0.80	0.84
		1788	6806/07	136.2	78.3	75.3	47.5	6.2	100%	230%	25	6173	82	1.00	94.5	95.4	95.4	0.73	0.82	0.85
		1190	5809/10	145.2	83.5	80.3	50.6	6.5	130%	240%	18	5930	77	1.00	94.1	94.5	95.0	0.64	0.75	0.80
		1192	6806/07	137.8	79.2	76.2	48.0	6.5	100%	230%	25	6371	81	1.00	94.5	95.4	95.4	0.73	0.81	0.84
		891	6806/07	141.3	81.2	78.1	49.2	6.4	100%	230%	22	7165	79	1.00	95.0	95.4	95.4	0.70	0.79	0.82
		713	7006/07	144.7	83.2	80.0	50.4	5.5	90%	200%	31	8818	79	1.00	95.1	95.4	95.4	0.66	0.76	0.80
650	480	3577	6808/09	139.8	80.4	77.3	48.7	6.6	90%	240%	20	6746	82	1.00	95.0	95.4	95.8	0.86	0.89	0.90
		1788	5809/10	150.3	86.4	83.1	52.4	6.2	130%	220%	20	5820	82	1.00	95.0	95.4	95.4	0.73	0.80	0.84
		1788	6806/07	148.7	85.5	82.2	51.8	6.2	100%	230%	25	6327	82	1.00	94.5	95.4	95.4	0.75	0.82	0.85
		1191	5809/10	155.9	89.6	86.2	54.3	6.5	100%	240%	16	5930	77	1.00	94.5	95.0	95.4	0.66	0.75	0.81
		1192	6806/07	150.3	86.4	83.1	52.4	6.5	100%	230%	25	6614	81	1.00	95.0	95.4	95.4	0.73	0.81	0.84
		713	7006/07	157.7	90.7	87.2	55.0	5.5	90%	200%	31	9105	79	1.00	95.2	95.5	95.5	0.66	0.76	0.80

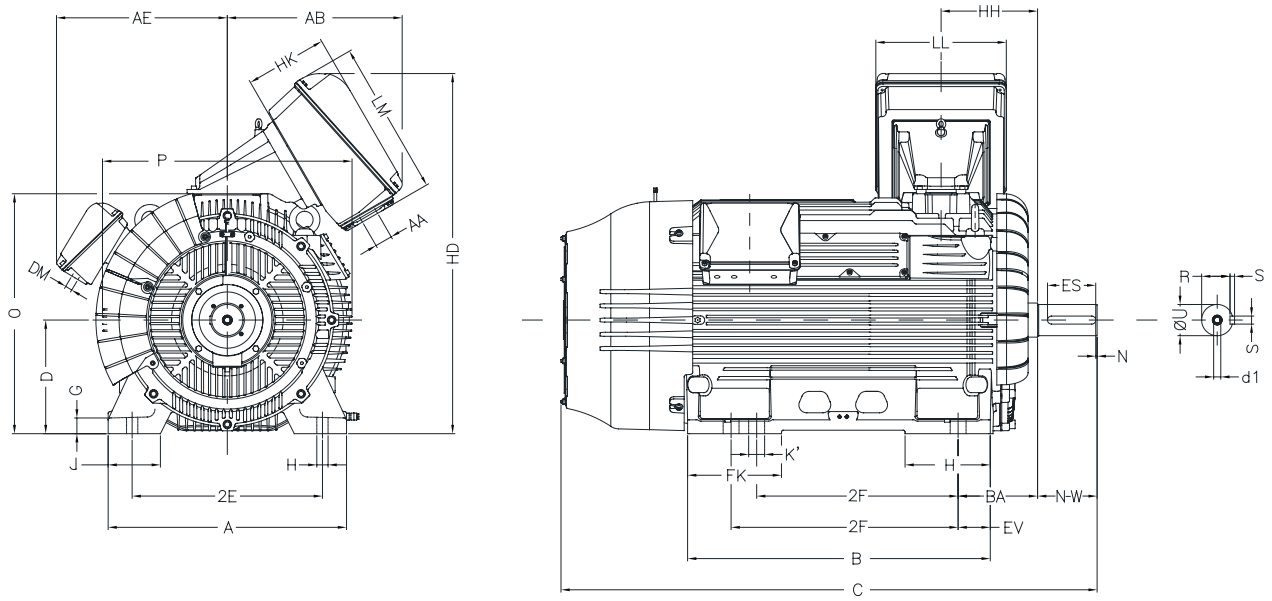
W50 Medium Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)				Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			2300V	4000V	4160V	6600V								50%	75%	100%	50%	75%	100%
700	515	3577	6808/09	149.9	86.2	82.9	52.3	6.6	90%	240%	20	6878	82	1.00	95.0	95.4	95.8	0.87	0.89	0.90
		1788	6806/07	158.8	91.3	87.8	55.3	6.2	100%	230%	25	6526	82	1.00	94.5	95.4	95.8	0.75	0.82	0.85
		1192	6806/07	160.6	92.4	88.8	56.0	6.5	100%	230%	20	6614	81	1.00	95.0	95.4	95.8	0.73	0.81	0.84
		892	6808/09	167.3	96.2	92.5	58.3	6.6	90%	250%	22	9039	79	1.00	95.4	95.4	95.4	0.68	0.78	0.81
		713	7006/07	169.1	97.2	93.5	58.9	5.5	90%	200%	31	9369	79	1.00	95.3	95.6	95.6	0.66	0.76	0.80
750	560	3577	6808/09	163.0	93.7	90.1	56.8	6.5	90%	240%	20	6989	82	1.00	95.4	95.8	95.8	0.87	0.89	0.90
		1790	6806/07	174.7	100.5	96.6	60.9	6.2	110%	230%	25	7033	82	1.00	94.5	95.4	95.8	0.73	0.81	0.84
		1192	6808/09	174.7	100.5	96.6	60.9	6.5	100%	230%	20	6856	81	1.00	95.0	95.4	95.8	0.73	0.81	0.84
		713	7006/07	182.7	105.0	101.0	63.7	5.5	90%	200%	31	9921	79	1.00	95.5	95.8	95.8	0.66	0.76	0.80
800	590	3577	6808/09	171.8	98.8	95.0	59.9	6.6	90%	240%	20	7099	82	1.00	95.4	95.8	95.8	0.88	0.89	0.90
		1790	6808/09	184.5	106.1	102.0	64.3	6.2	120%	240%	20	7231	82	1.00	95.0	95.4	95.8	0.72	0.80	0.84
		1790	7006/07	177.6	102.1	98.2	61.9	6.2	90%	250%	25	8223	82	1.00	94.5	95.4	95.8	0.78	0.84	0.87
		1192	6808/09	186.3	107.1	103.0	64.9	6.5	100%	230%	20	7143	81	1.00	95.0	95.8	95.8	0.73	0.81	0.83
		1192	7006/07	180.9	104.0	100.0	63.0	6.5	100%	240%	25	9105	81	1.00	95.4	95.8	96.2	0.73	0.81	0.85
		892	6808/09	191.7	110.2	106.0	66.8	6.6	90%	250%	22	9480	79	1.00	95.4	95.8	95.8	0.68	0.78	0.81
		713	7006/07	193.5	111.3	107.0	67.4	5.5	90%	200%	31	10362	79	1.00	95.6	95.9	95.9	0.66	0.76	0.80
850	630	3577	6808/09	182.7	105.0	101.0	63.7	6.7	90%	240%	20	7253	82	1.00	95.4	95.8	95.8	0.88	0.89	0.90
		3585	7006/07	186.3	107.1	103.0	64.9	6.7	90%	230%	25	8907	82	1.00	95.0	95.4	95.8	0.87	0.89	0.89
		1791	6808/09	197.1	113.4	109.0	68.7	6.2	120%	240%	20	7628	82	1.00	95.0	95.4	95.8	0.72	0.80	0.84
		1790	7006/07	189.9	109.2	105.0	66.2	6.2	90%	250%	25	8223	82	1.00	94.5	95.4	95.8	0.78	0.84	0.87
		1192	6808/09	199.0	114.4	110.0	69.3	6.5	100%	230%	18	7385	81	1.00	95.4	95.8	95.8	0.73	0.81	0.83
		1192	7006/07	193.5	111.3	107.0	67.4	6.5	100%	240%	25	9105	81	1.00	95.4	95.8	96.2	0.73	0.81	0.85
		713	7006/07	206.2	118.6	114.0	71.9	5.5	90%	200%	31	10582	79	1.00	95.7	96.0	96.0	0.66	0.76	0.80
900	660	3577	6808/09	191.7	110.2	106.0	66.8	6.6	90%	240%	20	7385	82	1.00	95.4	95.8	96.2	0.88	0.89	0.90
		3586	7006/07	191.7	110.2	106.0	66.8	6.7	90%	240%	25	9215	82	1.00	95.4	95.8	95.8	0.87	0.89	0.90
		1791	6808/09	206.2	118.6	114.0	71.9	6.2	120%	240%	20	7782	82	1.00	95.0	95.4	95.8	0.72	0.80	0.84
		1790	7006/07	199.0	114.4	110.0	69.3	6.2	90%	250%	25	8510	82	1.00	95.0	95.4	95.8	0.77	0.84	0.87
		1192	6808/09	208.0	119.6	115.0	72.5	6.5	100%	230%	18	7385	81	1.00	95.4	95.8	95.8	0.73	0.80	0.83
		1192	7006/07	204.4	117.5	113.0	71.2	6.5	100%	240%	25	9436	81	1.00	95.4	95.8	96.2	0.73	0.81	0.84
		895	7008/09	211.6	121.7	117.0	73.7	6.1	70%	220%	26	10802	79	1.00	95.4	95.8	95.8	0.69	0.79	0.82
950	700	3577	6808/09	202.6	116.5	112.0	70.6	6.7	90%	240%	20	7451	82	1.00	95.8	96.2	96.2	0.88	0.89	0.90
		3585	7008/09	204.4	117.5	113.0	71.2	6.7	90%	240%	25	9700	82	1.00	95.4	95.8	95.8	0.87	0.89	0.90
		1791	6808/09	218.9	125.8	121.0	76.3	6.2	120%	250%	20	7804	82	1.00	95.0	95.8	95.8	0.72	0.80	0.84
		1791	7006/07	211.6	121.7	117.0	73.7	6.2	90%	250%	25	8884	82	1.00	95.0	95.8	95.8	0.77	0.84	0.87
		1192	7008/09	217.0	124.8	120.0	75.6	6.3	100%	240%	25	9921	81	1.00	95.8	96.2	96.2	0.73	0.81	0.84
		895	7008/09	224.3	129.0	124.0	78.2	6.1	70%	220%	30	11574	79	1.00	95.4	95.8	95.8	0.69	0.79	0.82
1000	750	3578	6808/09	217.0	124.8	120.0	75.6	6.5	90%	240%	20	7540	82	1.00	95.8	96.2	96.2	0.88	0.89	0.90
		3584	7008/09	218.9	125.8	121.0	76.3	6.7	90%	250%	25	10009	82	1.00	95.4	95.8	95.8	0.88	0.89	0.90
		1790	7006/07	224.3	129.0	124.0	78.2	6.2	90%	250%	25	8884	82	1.00	95.0	95.8	96.2	0.77	0.84	0.87
		1192	7008/09	233.3	134.2	129.0	81.3	6.3	100%	240%	25	10273	81	1.00	95.8	96.2	96.2	0.73	0.80	0.84
		894	7008/09	240.6	138.3	133.0	83.8	6.1	70%	220%	30	11850	79	1.00	95.8	95.8	95.8	0.69	0.79	0.82
1100	800	3584	7008/09	231.5	133.1	128.0	80.7	6.7	80%	250%	25	10317	82	1.00	95.8	95.8	96.2	0.89	0.90	0.90
		1790	7008/09	240.6	138.3	133.0	83.8	6.2	90%	250%	25	9193	82	1.00	95.4	95.8	96.2	0.77	0.84	0.87
		1193	7008/09	247.8	142.5	137.0	86.4	6.5	100%	240%	25	10582	81	1.00	95.8	96.2	96.2	0.72	0.80	0.84
		894	7008/09	255.0	146.6	141.0	88.9	6.2	70%	220%	30	12180	79	1.00	95.8	96.2	96.2	0.70	0.79	0.82
1250	900	3584	7008/09	260.5	149.8	144.0	90.8	6.7	80%	250%	20	10648	82	1.00	95.8	95.8	96.2	0.89	0.90	0.90
		1790	7008/09	269.5	155.0	149.0	93.9	6.4	80%	250%	25	10009	82	1.00	95.4	96.2	96.2	0.75	0.84	0.87
		1193	7008/09	282.2	162.2	156.0	98.3	6.5	100%	240%	20	10560	81	1.00	95.8	96.2	96.5	0.70	0.78	0.83
		894	7008/09	285.8	164.3	158.0	99.6	6.2	70%	220%	30	12676	79	1.00	95.8	96.2	96.2	0.70	0.79	0.82
1350	1000	3585	7008/09	289.4	166.4	160.0	100.8	6.7	80%	250%	20	10979	82	1.00	95.8	96.2	96.2	0.88	0.89	0.90
		1791	7008/09	300.2	172.6	166.0	104.6	6.4	80%	250%	20	10317	82	1.00	95.8	96.2	96.2	0.75	0.84	0.87
		1193	7008/09	312.9	179.9	173.0	109.0	6.5	100%	240%	20	11310	81	1.00	95.8	96.2	96.5	0.73	0.78	0.83
1500	1100	1792	7008/09	334.6	192.4	185.0	116.6	6.4	80%	250%	20	10317	82	1.00	95.8	96.2	96.2	0.74	0.83	0.86
1700	1250	1791	7008/09	379.8	218.4	210.0	132.4	6.4	80%	250%	20	11089	82	1.00	95.8	96.2	96.2	0.74	0.83	0.86

W50 Medium Voltage Motors

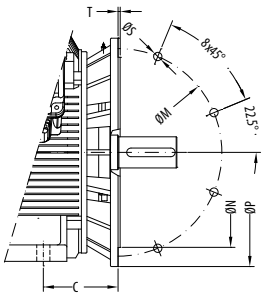
TEFC - Mechanical Data



Frame	# of Poles	2E	J	A	P	AB	AE	2F	K	B	FK	EV	H	SHAFT END					
														U	N-W	ES	N	S	R
5009/10	2	20.000	5.276	24.724	27.795	24.378	21.339	28.000/ 32.000	11.120	32.677	11.120	3.150	1.181	2.375	4.750	4.331	0.197	0.625	2.020
	4/6/8													3.625	10.625	9.055		0.875	3.134
5809/10	2	23.000	5.793	29.528	31.102		22.402	32.000/ 36.000	11.596	42.415	11.596	3.583		2.375	4.750	4.331		0.625	2.020
	4/6/8													3.875	11.625	9.843		1.000	3.307
6806/07	2	27.000	7.064	33.071	34.646		23.697	28.000/ 32.000	11.740	42.226	12.921	4.575	2.205	3.250	5.750	4.331		0.750	2.831
	4/6/8													4.375	11.625	9.843		1.000	3.817
6808/09	2		7.015					36.000/ 40.000	11.737	48.126	11.737			3.250	5.750	4.331		0.750	2.831
	4/6/8													4.735	11.625	9.843		1.000	3.817
7006/07	2	30.000	8.145	37.008	38.740		24.095	32.000/ 36.000	13.841	48.728	15.219	5.157		3.375	6.750	5.512		0.875	2.880
	4/6/8													5.125	11.625	9.843		1.250	4.423
7008/09	2							40.000/ 45.000		54.633	13.841			3.375	6.750	5.512		0.875	2.880
	4/6/8													5.125	11.625	9.843		1.250	4.423

Frame	# of Poles	C	D	G	O	HD	HH	HK	H	K'	BA	LL	LM	d1	AA	DM	BEARINGS	
																	D.E.	N.D.E.
5009/10	2	64.159	12.500	2.073	26.083	42.733	12.628	11.410	1.181	1.575	8.504	18.110	21.429	UNC3/4"	2xNPT 3"	3xNPT 3/4"	6314 C3	6314 C3
	4/6/8	70.035												UNC7/8"			6320 C3	6316 C3
5809/10	2	71.089	14.500	1.974	30.051	46.701	13.740			1.890	10.000			UNC3/4"	2xNPT 4"		6314 C3	6314 C3
	4/6/8	77.964												UNC7/8"			6322 C3	6319 C3
6806/07	2	72.348	17.000	1.967	34.520	51.170	13.862		1.417	2.205	11.500			UNC3/4"			6218 C3	6218 C3
	4/6/8	78.224												UNC 1"			6324 C3	6319 C3
6808/09	2	78.254		1.974										UNC3/4"			6218 C3	6218 C3
	4/6/8	84.129												UNC 1"			6324 C3	6319 C3
7006/07	2	79.742	17.500	2.467	36.870	53.517	13.780							UNC7/8"			6220 C3	6220 C3
	4/6/8	84.617												UNC1 1/4"			6328 C3	6322 C3
7008/09	2	85.648												UNC7/8"			6220 C3	6220 C3
	4/6/8	90.523												UNC1 1/4"			6328 C3	6322 C3

Frame	Flange	C	M	N	P	S	T	N° holes
5009/10	FF-600	8.504	23.622	21.653	25.984	0.945	0.236	0.315
5809/10	FF-740	10.000	29.134	26.772	31.496			
6806/07	FF-940	11.024	37.008	34.650	39.370	1.102		
6808/09								
7006/07	FF-1080	11.500	42.520	39.370	45.276			
7008/09								



M Line Low Voltage Motors

Standard Features

- Rated output: 150HP to 2375HP
- Three-phase, 2, 4, 6, 8, 10 and 12 pole, 60Hz
- Voltage: 220 to 690 V
- Cast iron frames 4400 to 8800 and welded steel plates for frame 10400 and above
- Cooling methods used:
  - Open self-ventilated
  - Self-ventilated by ducts, air inlet and outlet
  - Forced ventilated, air inlet and outlet by ducts
  - Forced ventilation, cooling on top of motor
  - Self-ventilated with air-to-air heat exchanger, heat exchanger on top of motor
  - Self-ventilated with air-to-air heat exchanger, heat exchanger around the stator
  - Forced ventilation in the air internal and external circuit, air-to-air heat exchanger
  - Air-to-water heat exchanger
  - Air-to-water heat exchanger, forced ventilation in the air internal circuit
- Degree of Protection: IP23 to IP55
- Service duty: (S1)
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- Service Factor: 1.00
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- Temperature detector: PT100, 1 per bearing with 3 wires
- Temperature detector: PT100, 2 per phase with 3 wires
- Two accessory terminal boxes, one for signal accessories and the other for those accessories requiring power (space heater)
- Single phase space heater
- Labyrinth tachonite in grease lubricated bearings
- Grease lubricated bearings:
  - For 2 pole motors in the following frame sizes:
    - Up to frame 400 (inclusive)
  - For 4 pole motors in the following frames:
    - Up to frame 560 (inclusive)
    - Grease lubricated bearings for 6 pole motors and above
- Sleeve bearings:
  - For 2 pole motors in frame 630
  - Frame 450 and above for
  - For 4 pole motors in frame size 630
- Electrically insulated non-drive end bearing for frames 450 and above, when connected directly to the power supply
- Painting: Acrylic polyurethane Polyamide epoxy (Final coat: Blue RAL 5007)
- Stainless steel nameplate
- Grounding lug on the frame and terminal box
- Grounding brush on drive end shaft for frame size 450 and above
- Stainless steel slip rings
- 6 loose power connection leads (without terminal block)

M-Line Machines are also available as ODP Slip Ring, TEAAC Slip Ring, ODP Squirrel Cage and WPII.

Optional Features

- 50Hz
- VFD application
- Service Factor: 1.15
- Class of insulation: H
- Temperature rise: 105°K for class F
- Temperature rise: 125°K for class H
- Ambient temperature above 40 °C
- Altitude above 1000 m
- Mountings: B5, B35, V1, V3, V5, V6, V18, V19, V36
- Degree of Protection IPW55 and above
- Classified area application: Ex-n, Ex-e, Ex-p
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded terminal box in different sizes, based on internal available space
- Power factor correction capacitors
- Non-reversion ratchet
- Centrifugal switch
- Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- One or more accessory terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
- Sleeve bearing
- Oil lubricated bearing
- Special bearing (overdesigned) for axial or radial thrust
- Special painting
- Terminal block for low voltage
- Cable gland in the terminal box entrance
- Protection against voltage surge: Lighting arrestors and Capacitors
- Aluminum, copper or brass rotor
- Vibration detector
- Noise suppressor in the air inlet and outlet
- Encoder
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- Independent hydraulic oil circulation system for sleeve bearing
- Electrically insulated non-drive end bearing for all frame sizes with driven by frequency drive
- Both bearings are electrically insulated
- Grounding brush on drive end bearing for all frames when driven by frequency converter (except for classified area)

M Line Low Voltage Motors

MGF TEAAC 60Hz - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			460V	575V								50%	75%	100%	50%	75%	100%
150	889	4411	191	153	6.5	120%	250%	22	3990	78	1.00	92.4	93.2	93.0	0.61	0.73	0.79
175	889	4411	223	178	6.5	120%	250%	22	4116	78	1.00	92.6	93.4	93.2	0.61	0.73	0.79
200	1779	4410	224	179	6.5	130%	240%	13	3719	82	1.00	93.9	94.2	93.8	0.82	0.88	0.89
	1181	4411	233	186	6.7	130%	250%	11	3900	80	1.00	93.6	93.5	92.7	0.77	0.85	0.87
	889	4411	254	203	6.5	120%	250%	22	4255	78	1.00	92.8	93.6	93.4	0.61	0.73	0.79
	592	5810	288	230	5.0	70%	200%	36	7141	80	1.00	93.2	93.5	93.0	0.53	0.64	0.70
225	1779	4410	253	202	6.5	130%	240%	13	3840	82	1.00	94.0	94.3	93.9	0.82	0.88	0.89
	1181	4411	261	209	6.7	130%	250%	11	4041	80	1.00	93.8	93.7	92.9	0.77	0.85	0.87
	889	5011	288	230	6.0	110%	250%	25	5194	80	1.00	94.0	94.3	93.8	0.60	0.72	0.78
	592	5811	323	258	5.0	70%	200%	36	7421	80	1.00	93.4	93.7	93.2	0.53	0.64	0.70
250	3557	4410	274	219	6.3	80%	220%	12	3600	85	1.00	92.9	93.3	92.8	0.91	0.92	0.92
	1779	4411	280	224	6.5	130%	240%	13	3959	82	1.00	94.1	94.4	94.0	0.82	0.88	0.89
	1181	4411	288	230	6.7	130%	250%	11	4184	80	1.00	94.4	94.3	93.5	0.77	0.85	0.87
	889	5011	319	255	6.0	110%	250%	25	5375	80	1.00	94.2	94.5	94.0	0.60	0.72	0.78
	592	5812	358	286	5.0	70%	200%	36	7694	80	1.00	93.6	93.9	93.4	0.53	0.64	0.70
275	3557	4411	301	241	6.3	80%	220%	12	3686	85	1.00	93.1	93.5	93.0	0.91	0.92	0.92
	1779	4411	308	246	6.5	130%	240%	13	4081	82	1.00	94.2	94.5	94.1	0.82	0.88	0.89
	1187	5009	315	252	6.3	110%	240%	14	4945	82	1.00	94.5	94.4	93.8	0.76	0.84	0.87
	889	5011	350	280	6.0	110%	250%	25	5556	80	1.00	94.4	94.7	94.2	0.60	0.72	0.78
	709	5810	378	302	5.0	70%	170%	33	7255	80	1.00	94.3	94.2	93.3	0.58	0.69	0.73
	594	6808	405	324	5.0	70%	230%	42	9184	82	1.00	93.0	93.6	93.4	0.48	0.60	0.68
300	3557	4411	328	262	6.3	80%	220%	12	3790	85	1.00	93.3	93.7	93.2	0.91	0.92	0.92
	1779	4411	335	268	6.5	130%	240%	13	4231	82	1.00	94.3	94.6	94.2	0.82	0.88	0.89
	1187	5010	344	275	6.3	110%	240%	14	5106	82	1.00	94.7	94.6	94.0	0.76	0.84	0.87
	889	5810	379	303	6.3	120%	250%	19	6955	80	1.00	94.1	94.4	93.9	0.61	0.73	0.79
	709	5811	411	329	5.0	70%	170%	33	7520	80	1.00	94.5	94.4	93.5	0.58	0.69	0.73
	594	6810	441	353	5.0	70%	230%	42	9511	82	1.00	93.2	93.8	93.6	0.48	0.60	0.68
350	3557	4411	381	305	6.3	80%	220%	12	3896	85	1.00	93.5	93.9	93.4	0.91	0.92	0.92
	1778	5010	403	322	6.5	130%	250%	9	4826	85	1.00	93.9	94.2	93.7	0.77	0.84	0.87
	1187	5010	400	320	6.3	110%	240%	14	5265	82	1.00	94.9	94.8	94.2	0.76	0.84	0.87
	889	5810	441	353	6.3	120%	250%	19	7160	80	1.00	94.3	94.6	94.1	0.61	0.73	0.79
	709	5812	479	383	5.0	70%	170%	33	7780	80	1.00	94.7	94.6	93.7	0.58	0.69	0.73
	594	6810	514	411	5.0	70%	230%	42	9835	82	1.00	93.4	94.0	93.8	0.48	0.60	0.68
370	3557	4411	403	322	6.3	80%	220%	12	4019	85	1.00	93.7	94.1	93.6	0.91	0.92	0.92
	1778	5010	425	340	6.5	130%	250%	9	4960	85	1.00	94.0	94.3	93.8	0.77	0.84	0.87
	1187	5010	421	337	6.3	110%	240%	14	5461	82	1.00	95.1	95.0	94.4	0.76	0.84	0.87
	889	5811	465	372	6.3	120%	250%	19	7405	80	1.00	94.5	94.8	94.3	0.61	0.73	0.79
	711	6810	479	383	5.7	110%	200%	24	9270	82	1.00	94.1	94.4	93.9	0.61	0.72	0.77
	594	6810	543	434	5.0	70%	230%	42	10225	82	1.00	93.6	94.2	94.0	0.48	0.60	0.68
400	3567	5009	433	346	6.1	90%	220%	12	4780	88	1.00	94.0	94.3	94.0	0.91	0.92	0.92
	1778	5011	459	367	6.5	130%	250%	9	5119	85	1.00	94.1	94.4	93.9	0.77	0.84	0.87
	1186	5810	469	375	6.1	130%	250%	14	6799	82	1.00	93.9	94.4	94.1	0.73	0.81	0.85
	889	5812	501	401	6.3	120%	250%	19	7690	80	1.00	94.7	95.0	94.5	0.61	0.73	0.79
	711	6810	518	414	5.7	110%	200%	24	9590	82	1.00	94.3	94.6	94.1	0.61	0.72	0.77
	592	7009	571	457	5.0	60%	170%	46	11290	85	1.00	94.1	94.2	93.7	0.55	0.65	0.70
450	3567	5010	486	389	6.1	90%	220%	12	4925	88	1.00	94.2	94.5	94.2	0.91	0.92	0.92
	1778	5011	515	412	6.5	130%	250%	9	5300	85	1.00	94.2	94.5	94.0	0.77	0.84	0.87
	1186	5810	526	421	6.1	130%	250%	14	7030	82	1.00	94.1	94.6	94.3	0.73	0.81	0.85
	892	6808	549	439	6.1	70%	250%	24	9180	82	1.00	94.7	95.0	94.7	0.66	0.76	0.81
	711	6811	580	464	5.7	110%	200%	24	9956	82	1.00	94.5	94.8	94.3	0.61	0.72	0.77
	592	7009	641	513	5.0	60%	170%	46	11680	85	1.00	94.3	94.4	93.9	0.55	0.65	0.70
500	3567	5010	539	431	6.1	90%	220%	12	5086	88	1.00	94.4	94.7	94.4	0.91	0.92	0.92
	1778	5011	571	457	6.5	130%	250%	9	5505	85	1.00	94.3	94.6	94.1	0.77	0.84	0.87
	1186	5811	583	466	6.1	130%	250%	14	7291	82	1.00	94.3	94.8	94.5	0.73	0.81	0.85
	892	6808	609	487	6.1	70%	250%	24	9495	82	1.00	94.9	95.2	94.9	0.66	0.76	0.81
	711	6811	644	515	5.7	110%	200%	24	10366	82	1.00	94.7	95.0	94.5	0.61	0.72	0.77
	592	7009	711	569	5.0	60%	170%	46	12121	85	1.00	94.5	94.6	94.1	0.55	0.65	0.70
600	3567	5011	645	516	6.1	90%	220%	12	5265	88	1.00	94.6	94.9	94.6	0.91	0.92	0.92
	1786	5811	674	539	5.8	90%	210%	15	7114	85	1.00	94.3	95.0	94.8	0.79	0.86	0.88
	1186	5811	698	558	6.1	130%	250%	14	7579	82	1.00	94.5	95.0	94.7	0.73	0.81	0.85
	892	6810	729	583	6.1	70%	250%	24	9846	82	1.00	95.1	95.4	95.1	0.66	0.76	0.81
	714	7008	790	632	6.3	110%	250%	20	11186	85	1.00	94.5	95.0	94.8	0.55	0.68	0.75
	592	7009	851	681	5.0	60%	170%	46	12610	85	1.00	94.7	94.8	94.3	0.55	0.65	0.70
700	3567	5011	751	601	6.1	90%	220%	12	5445	88	1.00	94.8	95.1	94.8	0.91	0.92	0.92
	1786	5811	785	628	5.8	90%	210%	15	7346	85	1.00	94.4	95.1	94.9	0.79	0.86	0.88
	1191	6809	813	650	6.0	70%	250%	20	9101	85	1.00	94.9	95.2	94.9	0.73	0.81	0.85
	892	6810	849	679	6.1	70%	250%	24	10194	82	1.00	95.3	95.6	95.3	0.66	0.76	0.81
	714	7009	920	736	6.3	110%	250%	20	11545	85	1.00	94.7	95.2	95.0	0.55	0.68	0.75
	592	7010	991	793	5.0	60%	170%	46	13100	85	1.00	94.9	95.0	94.5	0.55	0.65	0.70

M Line Low Voltage Motors

MGF TEAAC 60Hz - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			460V	575V								50%	75%	100%	50%	75%	100%
750	3569	5812	804	643	6.7	90%	230%	9	6951	88	1.00	95.0	95.4	95.0	0.89	0.91	0.92
	1786	5812	840	672	5.8	90%	210%	15	7619	85	1.00	94.5	95.2	95.0	0.79	0.86	0.88
	1191	6810	869	695	6.0	70%	250%	20	9396	85	1.00	95.1	95.4	95.1	0.73	0.81	0.85
	892	6811	908	726	6.1	70%	250%	24	10619	82	1.00	95.5	95.8	95.5	0.66	0.76	0.81
	714	7009	984	787	6.3	110%	250%	20	11980	85	1.00	94.9	95.4	95.2	0.55	0.68	0.75
	595	8009	1021	817	5.9	100%	240%	26	15430	85	1.00	93.6	94.3	94.2	0.54	0.67	0.73
800	3569	5812	855	684	6.7	90%	230%	9	7196	88	1.00	95.2	95.6	95.2	0.89	0.91	0.92
	1786	5812	895	716	5.8	90%	210%	15	7941	85	1.00	94.6	95.3	95.1	0.79	0.86	0.88
	1191	6810	925	740	6.0	70%	250%	20	9735	85	1.00	95.3	95.6	95.3	0.73	0.81	0.85
	889	7009	920	736	5.7	80%	220%	20	12231	85	1.00	95.2	95.3	94.7	0.77	0.84	0.86
	714	7009	1048	838	6.3	110%	250%	20	12485	85	1.00	95.1	95.6	95.4	0.55	0.68	0.75
	595	8009	1088	870	5.9	100%	240%	26	15939	85	1.00	93.8	94.5	94.4	0.54	0.67	0.73
900	3569	5812	960	768	6.7	90%	230%	9	7480	88	1.00	95.4	95.8	95.4	0.89	0.91	0.92
	1783	6809	985	788	5.5	70%	200%	14	9279	88	1.00	95.0	95.4	95.1	0.85	0.89	0.90
	1191	6811	1038	830	6.0	70%	250%	20	10130	85	1.00	95.5	95.8	95.5	0.73	0.81	0.85
	889	7009	1033	826	5.7	80%	220%	20	12749	85	1.00	95.4	95.5	94.9	0.77	0.84	0.86
	712	8010	1158	926	5.7	110%	230%	18	16160	85	1.00	94.3	94.8	94.5	0.60	0.71	0.77
	595	8010	1220	976	5.9	100%	240%	26	16526	85	1.00	94.0	94.7	94.6	0.54	0.67	0.73
1000	3576	6810	1066	853	6.5	90%	230%	10	9429	90	1.00	95.5	95.8	95.5	0.87	0.91	0.92
	1783	6810	1093	874	5.5	70%	200%	14	9621	88	1.00	95.1	95.5	95.2	0.85	0.89	0.90
	1191	6811	1151	921	6.0	70%	250%	20	10571	85	1.00	95.7	96.0	95.7	0.73	0.81	0.85
	889	7010	1145	916	5.7	80%	220%	20	13340	85	1.00	95.6	95.7	95.1	0.77	0.84	0.86
	712	8010	1284	1027	5.7	110%	230%	18	16739	85	1.00	94.5	95.0	94.7	0.60	0.71	0.77
	595	8010	1353	1082	5.9	100%	240%	26	17180	85	1.00	94.2	94.9	94.8	0.54	0.67	0.73
1250	3576	6810	1329	1063	6.5	90%	230%	10	9784	90	1.00	95.7	96.0	95.7	0.87	0.91	0.92
	1783	6810	1365	1092	5.5	70%	200%	14	9996	88	1.00	95.2	95.6	95.3	0.85	0.89	0.90
	1190	7009	1399	1119	5.5	80%	220%	20	11356	88	1.00	95.4	95.6	95.1	0.81	0.86	0.88
	894	8008	1451	1161	6.2	100%	220%	21	15666	85	1.00	94.9	95.2	94.9	0.76	0.83	0.85
	712	8011	1601	1281	5.7	110%	230%	18	17390	85	1.00	94.7	95.2	94.9	0.60	0.71	0.77
	596	8809	1599	1279	5.4	80%	200%	43	20414	85	1.00	94.6	95.2	95.1	0.62	0.72	0.77
1350	3576	6811	1433	1146	6.5	90%	230%	10	10146	90	1.00	95.9	96.2	95.9	0.87	0.91	0.92
	1783	6811	1473	1178	5.5	70%	200%	14	10370	88	1.00	95.3	95.7	95.4	0.85	0.89	0.90
	1190	7009	1508	1206	5.5	80%	220%	20	11746	88	1.00	95.6	95.8	95.3	0.81	0.86	0.88
	894	8008	1564	1251	6.2	100%	220%	21	16186	85	1.00	95.1	95.4	95.1	0.76	0.83	0.85
	712	8011	1726	1381	5.7	110%	230%	18	18036	85	1.00	94.9	95.4	95.1	0.60	0.71	0.77
	596	8809	1723	1378	5.4	80%	200%	43	21155	85	1.00	94.8	95.4	95.3	0.62	0.72	0.77
1500	3581	7009	1603	1282	6.3	60%	210%	13	11656	92	1.00	95.0	95.5	95.3	0.90	0.92	0.92
	1788	7010	1630	1304	5.8	70%	210%	15	11925	90	1.00	95.6	96.0	95.7	0.84	0.89	0.90
	1190	7009	1671	1337	5.5	80%	220%	20	12209	88	1.00	95.8	96.0	95.5	0.81	0.86	0.88
	894	8009	1734	1387	6.2	100%	220%	21	16810	85	1.00	95.3	95.6	95.3	0.76	0.83	0.85
	596	8809	1910	1528	5.4	80%	200%	43	22046	85	1.00	95.0	95.6	95.5	0.62	0.72	0.77
1750	3581	7009	1865	1492	6.3	60%	210%	13	12079	92	1.00	95.2	95.7	95.5	0.90	0.92	0.92
	1788	7011	1900	1520	5.8	70%	210%	15	12366	90	1.00	95.7	96.1	95.8	0.84	0.89	0.90
	1190	7009	1945	1556	5.5	80%	220%	20	12720	88	1.00	96.0	96.2	95.7	0.81	0.86	0.88
	894	8009	2019	1615	6.2	100%	220%	21	17489	85	1.00	95.5	95.8	95.5	0.76	0.83	0.85
2000	1788	7011	2170	1736	5.8	70%	210%	15	12870	90	1.00	95.8	96.2	95.9	0.84	0.89	0.90

M Line Low Voltage Motors

MGP WP-II 60Hz - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			460V	575V								50%	75%	100%	50%	75%	100%
150	888	4411	190	152	6.5	120%	250%	17	3135	78	1.00	92.6	93.1	92.7	0.63	0.74	0.80
175	888	4411	220	176	6.5	120%	250%	17	3230	78	1.00	92.8	93.3	92.9	0.63	0.74	0.80
200	1181	4410	233	186	6.5	110%	250%	9	3084	80	1.00	93.7	93.5	92.7	0.75	0.83	0.87
	888	4411	251	201	6.5	120%	250%	17	3340	78	1.00	93.0	93.5	93.1	0.63	0.74	0.80
	592	5810	294	235	5.0	80%	210%	26	5910	78	1.00	92.7	93.0	92.5	0.49	0.62	0.69
225	1181	4411	261	209	6.5	110%	250%	9	3201	80	1.00	93.9	93.7	92.9	0.75	0.83	0.87
	888	4411	283	226	6.5	120%	250%	17	3490	78	1.00	93.2	93.7	93.3	0.63	0.74	0.80
	592	5810	330	264	5.0	80%	210%	26	6131	78	1.00	92.9	93.2	92.7	0.49	0.62	0.69
250	1780	4409	294	235	6.6	120%	220%	10	3146	84	1.00	93.6	94.0	93.6	0.74	0.82	0.85
	1181	4411	289	231	6.5	110%	250%	9	3316	80	1.00	94.1	93.9	93.1	0.75	0.83	0.87
	888	4411	313	250	6.5	120%	250%	17	3640	78	1.00	93.4	93.9	93.5	0.63	0.74	0.80
	592	5811	365	292	5.0	80%	210%	26	6356	78	1.00	93.1	93.4	92.9	0.49	0.62	0.69
275	1780	4409	324	259	6.6	120%	220%	10	3245	84	1.00	93.7	94.1	93.7	0.74	0.82	0.85
	1181	4411	318	254	6.5	110%	250%	9	3430	80	1.00	94.3	94.1	93.3	0.75	0.83	0.87
	888	5011	361	289	5.8	120%	250%	19	4480	78	1.00	94.0	94.2	93.7	0.57	0.69	0.76
	711	5810	385	308	5.0	70%	170%	25	5985	78	1.00	94.0	93.9	93.0	0.56	0.67	0.72
	592	5811	401	321	5.0	80%	210%	26	6574	78	1.00	93.3	93.6	93.1	0.49	0.62	0.69
300	3559	4410	326	261	6.7	90%	230%	8	3000	85	1.00	93.9	94.1	93.5	0.90	0.92	0.92
	1780	4410	353	282	6.6	120%	220%	10	3364	84	1.00	93.8	94.2	93.8	0.74	0.82	0.85
	1181	4411	345	276	6.5	110%	250%	9	3569	80	1.00	94.5	94.3	93.5	0.75	0.83	0.87
	888	5011	394	315	5.8	120%	250%	19	4660	78	1.00	94.2	94.4	93.9	0.57	0.69	0.76
	711	5810	419	335	5.0	70%	170%	25	6195	78	1.00	94.2	94.1	93.2	0.56	0.67	0.72
	592	5812	436	349	5.0	80%	210%	26	6850	78	1.00	93.5	93.8	93.3	0.49	0.62	0.69
350	3559	4411	380	304	6.7	90%	230%	8	3084	85	1.00	94.1	94.3	93.7	0.90	0.92	0.92
	1780	4411	410	328	6.6	120%	220%	10	3485	84	1.00	93.9	94.3	93.9	0.74	0.82	0.85
	1185	5009	401	321	5.8	100%	220%	11	4224	80	1.00	95.1	94.7	93.9	0.76	0.84	0.87
	888	5011	459	367	5.8	120%	250%	19	4839	78	1.00	94.4	94.6	94.1	0.57	0.69	0.76
	711	5810	488	390	5.0	70%	170%	25	6400	78	1.00	94.4	94.3	93.4	0.56	0.67	0.72
	592	6808	494	395	5.0	60%	200%	37	7961	78	1.00	94.1	94.2	93.5	0.53	0.65	0.71
370	3559	4411	401	321	6.7	90%	230%	8	3186	85	1.00	94.3	94.5	93.9	0.90	0.92	0.92
	1780	4411	434	347	6.6	120%	220%	10	3631	84	1.00	94.0	94.4	94.0	0.74	0.82	0.85
	1185	5010	424	339	5.8	100%	220%	11	4376	80	1.00	95.3	94.9	94.1	0.76	0.84	0.87
	887	5810	473	378	5.9	120%	250%	15	6116	78	1.00	94.4	94.5	93.9	0.60	0.72	0.78
	711	5811	514	411	5.0	70%	170%	25	6649	78	1.00	94.6	94.5	93.6	0.56	0.67	0.72
	592	6810	521	417	5.0	60%	200%	37	8254	78	1.00	94.3	94.4	93.7	0.53	0.65	0.71
400	3559	4411	433	346	6.7	90%	230%	8	3300	85	1.00	94.5	94.7	94.1	0.90	0.92	0.92
	1779	5009	458	366	6.1	100%	220%	11	4290	84	1.00	94.4	94.7	94.2	0.79	0.85	0.87
	1185	5010	456	365	5.8	100%	220%	11	4555	80	1.00	95.5	95.1	94.3	0.76	0.84	0.87
	887	5810	510	408	5.9	120%	250%	15	6340	78	1.00	94.6	94.7	94.1	0.60	0.72	0.78
	711	5812	555	444	5.0	70%	170%	25	6940	78	1.00	94.8	94.7	93.8	0.56	0.67	0.72
	592	6810	561	449	5.0	60%	200%	37	8600	78	1.00	94.5	94.6	93.9	0.53	0.65	0.71
450	3559	4411	486	389	6.7	90%	230%	8	3435	85	1.00	94.7	94.9	94.3	0.90	0.92	0.92
	1779	5009	514	411	6.1	100%	220%	11	4455	84	1.00	94.5	94.8	94.3	0.79	0.85	0.87
	1185	5010	513	410	5.8	100%	220%	11	4755	80	1.00	95.7	95.3	94.5	0.76	0.84	0.87
	887	5811	573	458	5.9	120%	250%	15	6594	78	1.00	94.8	94.9	94.3	0.60	0.72	0.78
	711	6810	580	464	5.4	110%	190%	20	8194	78	1.00	94.9	95.0	94.4	0.60	0.71	0.77
	592	6810	630	504	5.0	60%	200%	37	8995	78	1.00	94.7	94.8	94.1	0.53	0.65	0.71
500	3567	5009	539	431	6.2	90%	230%	10	4101	85	1.00	95.0	95.0	94.5	0.89	0.91	0.92
	1779	5010	570	456	6.1	100%	220%	11	4641	84	1.00	94.6	94.9	94.4	0.79	0.85	0.87
	1189	5810	589	471	6.4	110%	250%	14	6021	80	1.00	94.6	95.0	94.6	0.70	0.80	0.84
	887	5812	635	508	5.9	120%	250%	15	6885	78	1.00	95.0	95.1	94.5	0.60	0.72	0.78
	711	6810	643	514	5.4	110%	190%	20	8525	78	1.00	95.1	95.2	94.6	0.60	0.71	0.77
	591	7009	703	562	5.0	50%	150%	46	10150	78	1.00	94.7	94.6	93.8	0.58	0.67	0.71
600	3567	5010	645	516	6.2	90%	230%	10	4246	85	1.00	95.2	95.2	94.7	0.89	0.91	0.92
	1779	5011	684	547	6.1	100%	220%	11	4839	84	1.00	94.7	95.0	94.5	0.79	0.85	0.87
	1189	5811	705	564	6.4	110%	250%	14	6250	80	1.00	94.8	95.2	94.8	0.70	0.80	0.84
	889	6808	698	558	5.5	80%	210%	21	8415	78	1.00	95.6	95.4	94.7	0.76	0.83	0.85
	711	6811	770	616	5.4	110%	190%	20	8884	78	1.00	95.3	95.4	94.8	0.60	0.71	0.77
	591	7009	841	673	5.0	50%	150%	46	10591	78	1.00	94.9	94.8	94.0	0.58	0.67	0.71
700	3567	5010	751	601	6.2	90%	230%	10	4385	85	1.00	95.4	95.4	94.9	0.89	0.91	0.92
	1779	5011	796	637	6.1	100%	220%	11	5044	84	1.00	94.8	95.1	94.6	0.79	0.85	0.87
	1189	5811	821	657	6.4	110%	250%	14	6479	80	1.00	95.0	95.4	95.0	0.70	0.80	0.84
	889	6810	813	650	5.5	80%	210%	21	8730	78	1.00	95.8	95.6	94.9	0.76	0.83	0.85
	711	6811	896	717	5.4	110%	190%	20	9250	78	1.00	95.5	95.6	95.0	0.60	0.71	0.77
	591	7009	980	784	5.0	50%	150%	46	11025	78	1.00	95.1	95.0	94.2	0.58	0.67	0.71
750	3567	5011	803	642	6.2	90%	230%	10	4555	85	1.00	95.6	95.6	95.1	0.89	0.91	0.92
	1781	5811	860	688	6.1	80%	210%	13	6085	85	1.00	95.3	95.2	94.9	0.79	0.84	0.86
	1189	5811	878	702	6.4	110%	250%	14	6759	80	1.00	95.2	95.6	95.2	0.70	0.80	0.84
	889	6810	869	695	5.5	80%	210%	21	9105	78	1.00	96.0	95.8	95.1	0.76	0.83	0.85
	713	7009	973	778	6.4	120%	250%	16	9985	78	1.00	94.9	95.3	95.0	0.57	0.70	0.76
	591	7010	1048	838	5.0	50%	150%	46	11550	78	1.00	95.3	95.2	94.4	0.58	0.67	0.71

M Line Low Voltage Motors

MGP WP-II 60Hz - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			460V	575V								50%	75%	100%	50%	75%	100%
800	3567	5011	854	683	6.2	90%	230%	10	4751	85	1.00	95.8	95.8	95.3	0.89	0.91	0.92
	1781	5811	916	733	6.1	80%	210%	13	6310	85	1.00	95.4	95.3	95.0	0.79	0.84	0.86
	1190	6808	916	733	6.7	100%	250%	11	8049	80	1.00	95.6	95.6	95.1	0.75	0.83	0.86
	889	6811	925	740	5.5	80%	210%	21	9539	78	1.00	96.2	96.0	95.3	0.76	0.83	0.85
	713	7009	1035	828	6.4	120%	250%	16	10434	78	1.00	95.1	95.5	95.2	0.57	0.70	0.76
	593	8009	1136	909	5.0	70%	190%	36	13790	85	1.00	94.2	94.6	94.2	0.54	0.65	0.70
900	3566	5811	964	771	6.1	90%	220%	8	6014	85	1.00	95.4	95.5	95.0	0.87	0.91	0.92
	1781	5812	1030	824	6.1	80%	210%	13	6570	85	1.00	95.5	95.4	95.1	0.79	0.84	0.86
	1190	6808	1029	823	6.7	100%	250%	11	8364	80	1.00	95.8	95.8	95.3	0.75	0.83	0.86
	891	7009	1093	874	7.0	120%	250%	9	10505	78	1.00	95.5	95.6	95.2	0.63	0.75	0.81
	713	7009	1163	930	6.4	120%	250%	16	10946	78	1.00	95.3	95.7	95.4	0.57	0.70	0.76
	593	8010	1275	1020	5.0	70%	190%	36	14330	85	1.00	94.4	94.8	94.4	0.54	0.65	0.70
1000	3566	5811	1069	855	6.1	90%	220%	8	6246	85	1.00	95.6	95.7	95.2	0.87	0.91	0.92
	1781	5812	1144	915	6.1	80%	210%	13	6861	85	1.00	95.6	95.5	95.2	0.79	0.84	0.86
	1190	6810	1140	912	6.7	100%	250%	11	8719	80	1.00	96.0	96.0	95.5	0.75	0.83	0.86
	891	7009	1211	969	7.0	120%	250%	9	11025	78	1.00	95.7	95.8	95.4	0.63	0.75	0.81
	711	8010	1270	1016	5.2	100%	210%	18	14369	85	1.00	94.8	95.0	94.5	0.64	0.74	0.78
	593	8010	1414	1131	5.0	70%	190%	36	14945	85	1.00	94.6	95.0	94.6	0.54	0.65	0.70
1250	3566	5812	1334	1067	6.1	90%	220%	8	6499	85	1.00	95.8	95.9	95.4	0.87	0.91	0.92
	1789	6810	1411	1129	7.4	80%	220%	8	8620	85	1.00	95.7	95.6	95.3	0.77	0.85	0.87
	1190	6810	1423	1138	6.7	100%	250%	11	9109	80	1.00	96.2	96.2	95.7	0.75	0.83	0.86
	891	7009	1511	1209	7.0	120%	250%	9	11609	78	1.00	95.9	96.0	95.6	0.63	0.75	0.81
	711	8010	1585	1268	5.2	100%	210%	18	14949	85	1.00	95.0	95.2	94.7	0.64	0.74	0.78
	594	8010	1645	1316	5.4	90%	220%	26	15340	85	1.00	94.8	95.2	94.9	0.58	0.69	0.75
1350	3574	6810	1438	1150	6.4	70%	230%	11	8351	85	1.00	96.0	96.1	95.6	0.89	0.91	0.92
	1789	6810	1523	1218	7.4	80%	220%	8	8959	85	1.00	95.8	95.7	95.4	0.77	0.85	0.87
	1190	6811	1533	1226	6.7	100%	250%	11	9500	80	1.00	96.4	96.4	95.9	0.75	0.83	0.86
	894	8007	1621	1297	6.1	90%	220%	17	13194	85	1.00	95.0	95.4	95.1	0.69	0.78	0.82
	711	8011	1708	1366	5.2	100%	210%	18	15525	85	1.00	95.2	95.4	94.9	0.64	0.74	0.78
	595	8809	1704	1363	5.0	70%	180%	43	18190	85	1.00	95.1	95.4	95.1	0.65	0.74	0.78
1500	3574	6810	1594	1275	6.4	70%	230%	11	8690	85	1.00	96.2	96.3	95.8	0.89	0.91	0.92
	1789	6810	1690	1352	7.4	80%	220%	8	9369	85	1.00	95.9	95.8	95.5	0.77	0.85	0.87
	1191	7009	1729	1383	6.2	100%	250%	13	9764	80	1.00	96.1	96.1	95.6	0.72	0.81	0.85
	894	8008	1798	1438	6.1	90%	220%	17	13679	85	1.00	95.2	95.6	95.3	0.69	0.78	0.82
	711	8011	1894	1515	5.2	100%	210%	18	16219	85	1.00	95.4	95.6	95.1	0.64	0.74	0.78
	595	8809	1890	1512	5.0	70%	180%	43	18986	85	1.00	95.3	95.6	95.3	0.65	0.74	0.78
1750	3574	6811	1855	1484	6.4	70%	230%	11	9061	85	1.00	96.4	96.5	96.0	0.89	0.91	0.92
	1789	6811	1970	1576	7.4	80%	220%	8	9810	85	1.00	96.0	95.9	95.6	0.77	0.85	0.87
	1191	7009	2013	1610	6.2	100%	250%	13	10161	80	1.00	96.3	96.3	95.8	0.72	0.81	0.85
	894	8008	2093	1674	6.1	90%	220%	17	14204	85	1.00	95.4	95.8	95.5	0.69	0.78	0.82
	595	8809	2200	1760	5.0	70%	180%	43	19846	85	1.00	95.5	95.8	95.5	0.65	0.74	0.78
2000	3577	7009	2155	1724	6.6	60%	210%	8	10015	85	1.00	95.8	95.9	95.5	0.87	0.90	0.91
	1789	7009	2251	1801	6.3	70%	210%	14	11085	88	1.00	95.9	95.9	95.6	0.79	0.86	0.87
	1191	7009	2295	1836	6.2	100%	250%	13	10619	80	1.00	96.5	96.5	96.0	0.72	0.81	0.85
	894	8009	2386	1909	6.1	90%	220%	17	14810	85	1.00	95.6	96.0	95.7	0.69	0.78	0.82
2250	3577	7009	2419	1935	6.6	60%	210%	8	10509	85	1.00	96.0	96.1	95.7	0.87	0.90	0.91
	1789	7010	2530	2024	6.3	70%	210%	14	11731	88	1.00	96.0	96.0	95.7	0.79	0.86	0.87
	1191	7009	2576	2061	6.2	100%	250%	13	11230	80	1.00	96.7	96.7	96.2	0.72	0.81	0.85
	894	8009	2679	2143	6.1	90%	220%	17	15615	85	1.00	95.8	96.2	95.9	0.69	0.78	0.82
2500	1789	7010	2809	2247	6.3	70%	210%	14	12381	88	1.00	96.1	96.1	95.8	0.79	0.86	0.87

M Line Medium Voltage Motors

Standard Features

- Rated output:300HP to 27,000HP
- Three-phase, 2, 4, 6, 8, 10 and 12 pole, 60Hz
- Voltage: 2,300 V to 13.8 kV
- Cast iron frames 4400 to 8800 and welded steel plates for frame 10400 to above
- Cooling methods used:
  - Open self-ventilated
  - Self-ventilated by ducts, air inlet and outlet
  - Forced ventilated, air inlet and outlet by ducts
  - Forced ventilation, cooling on top of motor
  - Self-ventilated with air-to-air heat exchanger, heat exchanger on top of motor
  - Self-ventilated with air-to-air heat exchanger, heat exchanger around the stator
  - Forced ventilation in the air internal and external circuit, air-to-air heat exchanger
  - Air-to-water heat exchanger
  - Air-to-water heat exchanger, forced ventilation in the air internal circuit
- Degree of Protection: IP23 to IP55
- Service duty: (S1)
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- Service Factor: 1.00
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- Temperature detector: PT100, 1 per bearing with 3 wires
- Temperature detector: PT100, 2 per phase with 3 wires
- Two accessory terminal boxes, one for signal accessories and the other for those accessories requiring power (space heater)
- Single phase space heater
- Labyrinth tachonite in grease lubricated bearings
- Grease lubricated bearings:
  - For 2 pole motors in the following frame sizes:
    - Up to frame 400 (inclusive)
  - For 4 pole motors in the following frames:
    - Up to frame 560 (inclusive)
    - Grease lubricated bearings for 6 pole motors and above
- Sleeve bearings:
  - For 2 pole motors in frame 630
  - Frame 450 and above for
  - For 4 pole motors in frame size 630
- Electrically insulated non-drive end bearing for frames 450 and above, when connected directly to the power supply
- Painting: Acrylic polyurethane Polyamide epoxy (Final coat: Blue RAL 5007)
- Stainless steel nameplate
- Grounding lug on the frame and terminal box
- Grounding brush on drive end shaft for frame size 450 and above
- Stainless steel slip rings
- 3 connection terminals in the power terminal box (with terminal block)

M-Line Machines are also available as ODP Slip Ring, TEAAC Slip Ring, ODP Squirrel Cage and WPII.

Optional Features

- 50Hz
- VFD application
- Service Factor: 1.15
- Class of insulation: H
- Temperature rise: 105°K for class F
- Temperature rise: 125°K for class H
- Ambient temperature above 40 °C
- Altitude above 1000 m
- Mountings: B5, B35, V1, V3, V5, V6, V18, V19, V36
- Degree of Protection IPW55 and above
- Classified area application: Ex-n, Ex-e, Ex-p
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded terminal box in different sizes, based on internal available space
- Power factor correction capacitors
- Non-reversion ratchet
- Centrifugal switch
- Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- One or more accessory terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
- Sleeve bearing
- Oil lubricated bearing
- Special bearing (overdesigned) for axial or radial thrust
- Special painting
- Terminal block for low voltage
- Cable gland in the terminal box entrance
- Protection against voltage surge: Lighting arrestors and Capacitors
- Aluminum, copper or brass rotor
- Vibration detector
- Noise suppressor in the air inlet and outlet
- Encoder
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- Independent hydraulic oil circulation system for sleeve bearing
- Electrically insulated non-drive end bearing for all frame sizes with driven by frequency drive
- Both bearings are electrically insulated
- Grounding brush on drive end bearing for all frames when driven by frequency converter (except for classified area)

M Line Medium Voltage Motors

MGF TEAAC 60Hz 4160V - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			4160V								50%	75%	100%	50%	75%	100%
250	1185	5009	35.3	5.8	100%	250%	16	5055	82	1.00	92.9	93.3	92.9	0.65	0.75	0.79
275	1185	5010	38.7	5.8	100%	250%	16	5205	82	1.00	93.1	93.5	93.1	0.65	0.75	0.79
300	1185	5010	42.1	5.8	100%	250%	16	5390	82	1.00	93.3	93.7	93.3	0.65	0.75	0.79
	887	5811	45.7	5.8	120%	250%	19	7220	80	1.00	92.9	93.5	93.2	0.55	0.67	0.73
350	3566	5010	42.1	6.4	80%	250%	9	4649	88	1.00	93.8	94.0	93.5	0.88	0.91	0.92
	1779	5009	44.1	6.3	100%	250%	17	4881	85	1.00	93.1	93.7	93.4	0.79	0.85	0.88
	1185	5011	49.1	5.8	100%	250%	16	5575	82	1.00	93.5	93.9	93.5	0.65	0.75	0.79
	887	5812	53.1	5.8	120%	250%	19	7456	80	1.00	93.1	93.7	93.4	0.55	0.67	0.73
370	3566	5011	44.4	6.4	80%	250%	9	4771	88	1.00	94.0	94.2	93.7	0.88	0.91	0.92
	1779	5009	46.6	6.3	100%	250%	17	5020	85	1.00	93.2	93.8	93.5	0.79	0.85	0.88
	1185	5011	51.8	5.8	100%	250%	16	5796	82	1.00	93.7	94.1	93.7	0.65	0.75	0.79
	887	5812	56.1	5.8	120%	250%	19	7736	80	1.00	93.3	93.9	93.6	0.55	0.67	0.73
400	3566	5011	47.9	6.4	80%	250%	9	4910	88	1.00	94.2	94.4	93.9	0.88	0.91	0.92
	1779	5010	50.3	6.3	100%	250%	17	5185	85	1.00	93.3	93.9	93.6	0.79	0.85	0.88
	1187	5810	55.1	5.5	100%	210%	13	6900	82	1.00	93.6	94.2	93.9	0.66	0.75	0.80
	888	6808	53.7	6.0	100%	250%	18	8774	82	1.00	93.2	93.5	93.0	0.72	0.80	0.83
450	3566	5011	53.8	6.4	80%	250%	9	5071	88	1.00	94.4	94.6	94.1	0.88	0.91	0.92
	1779	5011	56.5	6.3	100%	250%	17	5375	85	1.00	93.4	94.0	93.7	0.79	0.85	0.88
	1187	5811	61.9	5.5	100%	210%	13	7130	82	1.00	93.8	94.4	94.1	0.66	0.75	0.80
	888	6809	60.2	6.0	100%	250%	18	9041	82	1.00	93.4	93.7	93.2	0.72	0.80	0.83
	708	6810	67.6	5.0	100%	180%	26	9491	82	1.00	93.7	93.9	93.2	0.61	0.70	0.74
500	3566	5011	59.7	6.4	80%	250%	9	5249	88	1.00	94.6	94.8	94.3	0.88	0.91	0.92
	1779	5011	62.7	6.3	100%	250%	17	5591	85	1.00	93.5	94.1	93.8	0.79	0.85	0.88
	1187	5811	68.6	5.5	100%	210%	13	7390	82	1.00	94.0	94.6	94.3	0.66	0.75	0.80
	888	6809	66.8	6.0	100%	250%	18	9341	82	1.00	93.6	93.9	93.4	0.72	0.80	0.83
	708	6810	74.9	5.0	100%	180%	26	9859	82	1.00	93.9	94.1	93.4	0.61	0.70	0.74
	593	7010	82.9	5.0	80%	200%	32	11821	85	1.00	92.9	93.5	93.2	0.50	0.61	0.67
600	3571	5811	72.4	6.6	60%	250%	11	6415	88	1.00	94.4	94.7	94.3	0.86	0.89	0.91
	1784	5811	75.5	6.3	120%	230%	14	7156	85	1.00	94.1	94.8	94.6	0.79	0.85	0.87
	1187	5812	82.2	5.5	100%	210%	13	7674	82	1.00	94.2	94.8	94.5	0.66	0.75	0.80
	888	6810	80	6.0	100%	250%	18	9669	82	1.00	93.8	94.1	93.6	0.72	0.80	0.83
	713	7009	89.3	5.9	120%	210%	18	11605	85	1.00	93.5	94.1	94.0	0.56	0.68	0.74
	593	7010	99.3	5.0	80%	200%	32	12255	85	1.00	93.1	93.7	93.4	0.50	0.61	0.67
700	3571	5811	84.3	6.6	60%	250%	11	6574	88	1.00	94.6	94.9	94.5	0.86	0.89	0.91
	1784	5811	88	6.3	120%	230%	14	7385	85	1.00	94.2	94.9	94.7	0.79	0.85	0.87
	1188	6809	90.5	6.3	100%	240%	15	9160	85	1.00	94.2	94.5	94.2	0.74	0.82	0.85
	888	6810	93.1	6.0	100%	250%	18	10004	82	1.00	94.0	94.3	93.8	0.72	0.80	0.83
	713	7010	104	5.9	120%	210%	18	11971	85	1.00	93.7	94.3	94.2	0.56	0.68	0.74
	593	7011	116	5.0	80%	200%	32	12690	85	1.00	93.3	93.9	93.6	0.50	0.61	0.67
750	3571	5812	90.1	6.6	60%	250%	11	6766	88	1.00	94.8	95.1	94.7	0.86	0.89	0.91
	1784	5812	94.1	6.3	120%	230%	14	7670	85	1.00	94.3	95.0	94.8	0.79	0.85	0.87
	1188	6810	96.8	6.3	100%	240%	15	9460	85	1.00	94.4	94.7	94.4	0.74	0.82	0.85
	888	6811	99.5	6.0	100%	250%	18	10399	82	1.00	94.2	94.5	94.0	0.72	0.80	0.83
	713	7010	111	5.9	120%	210%	18	12414	85	1.00	93.9	94.5	94.4	0.56	0.68	0.74
	593	7011	124	5.0	80%	200%	32	13214	85	1.00	93.5	94.1	93.8	0.50	0.61	0.67
800	3571	5812	95.9	6.6	60%	250%	11	6991	88	1.00	95.0	95.3	94.9	0.86	0.89	0.91
	1784	5812	100	6.3	120%	230%	14	7996	85	1.00	94.4	95.1	94.9	0.79	0.85	0.87
	1188	6810	103	6.3	100%	240%	15	9810	85	1.00	94.6	94.9	94.6	0.74	0.82	0.85
	888	6811	106	6.0	100%	250%	18	10864	82	1.00	94.4	94.7	94.2	0.72	0.80	0.83
	713	7011	118	5.9	120%	210%	18	12930	85	1.00	94.1	94.7	94.6	0.56	0.68	0.74
	592	8009	122	5.0	60%	180%	42	15670	85	1.00	94.3	94.5	94.0	0.58	0.68	0.72
900	3571	5812	108	6.6	60%	250%	11	7251	88	1.00	95.2	95.5	95.1	0.86	0.89	0.91
	1785	6810	116	6.1	130%	220%	6	9041	88	1.00	93.8	94.6	94.5	0.76	0.83	0.85
	1188	6811	116	6.3	100%	240%	15	10209	85	1.00	94.8	95.1	94.8	0.74	0.82	0.85
	890	7009	117	5.0	60%	210%	31	12284	85	1.00	94.6	94.9	94.5	0.75	0.82	0.84
	713	7011	133	5.9	120%	210%	18	13525	85	1.00	94.3	94.9	94.8	0.56	0.68	0.74
	592	8010	137	5.0	60%	180%	42	16219	85	1.00	94.5	94.7	94.2	0.58	0.68	0.72
1000	3573	6810	123	6.3	70%	240%	9	9184	90	1.00	94.8	95.2	94.9	0.85	0.88	0.89
	1785	6810	129	6.1	130%	220%	6	9345	88	1.00	93.9	94.7	94.6	0.76	0.83	0.85
	1188	6811	128	6.3	100%	240%	15	10659	85	1.00	95.0	95.3	95.0	0.74	0.82	0.85
	890	7010	130	5.0	60%	210%	31	12815	85	1.00	94.8	95.1	94.7	0.75	0.82	0.84
	712	8010	145	5.7	110%	200%	14	15639	85	1.00	94.4	94.7	94.3	0.58	0.70	0.76
	592	8010	152	5.0	60%	180%	42	16841	85	1.00	94.7	94.9	94.4	0.58	0.68	0.72
1250	3573	6811	153	6.3	70%	240%	9	9515	90	1.00	95.0	95.4	95.1	0.85	0.88	0.89
	1785	6810	161	6.1	130%	220%	6	9685	88	1.00	94.0	94.8	94.7	0.76	0.83	0.85
	1189	7010	159	5.5	90%	190%	16	12284	88	1.00	94.8	95.1	94.8	0.80	0.85	0.86
	890	7010	162	5.0	60%	210%	31	13399	85	1.00	95.0	95.3	94.9	0.75	0.82	0.84
	712	8010	180	5.7	110%	200%	14	16151	85	1.00	94.6	94.9	94.5	0.58	0.70	0.76
	593	8010	177	5.0	80%	190%	34	17235	85	1.00	94.9	95.2	94.8	0.62	0.73	0.77
1500	3573	6811	183	6.3	70%	240%	9	10236	90	1.00	95.4	95.8	95.5	0.85	0.88	0.89
	1785	6811	193	6.1	130%	220%	6	10434	88	1.00	94.2	95.0	94.9	0.76	0.83	0.85
	1189	7010	190	5.5	90%	190%	16	13289	88	1.00	95.2	95.5	95.2	0.80	0.85	0.86
	892	8009	197	5.7	70%	240%	21	15750	85	1.00	95.3	95.5	95.1	0.71	0.80	0.83
	712	8011	215	5.7	110%	200%	14	17271	85	1.00	95.0	95.3	94.9	0.58	0.70	0.76
	595	8809	215	5.6	90%	210%	24	20829	85	1.00	94.9	95.3	95.1	0.59	0.71	0.76

M Line Medium Voltage Motors

MGF TEAAC 60Hz 4160V - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			4160V								50%	75%	100%	50%	75%	100%
1750	3580	7010	209	6.4	60%	250%	15	11779	92	1.00	95.5	95.8	95.5	0.88	0.91	0.91
	1789	7010	218	6.2	80%	250%	16	11960	90	1.00	95.2	95.7	95.5	0.78	0.84	0.87
	1189	7011	221	5.5	90%	190%	16	13880	88	1.00	95.4	95.7	95.4	0.80	0.85	0.86
	892	8010	229	5.7	70%	240%	21	16305	85	1.00	95.5	95.7	95.3	0.71	0.80	0.83
	712	8011	251	5.7	110%	200%	14	17934	85	1.00	95.2	95.5	95.1	0.58	0.70	0.76
	595	8809	250	5.6	90%	210%	24	21649	85	1.00	95.1	95.5	95.3	0.59	0.71	0.76
2000	3580	7010	238	6.4	60%	250%	15	12189	92	1.00	95.7	96.0	95.7	0.88	0.91	0.91
	1789	7010	249	6.2	80%	250%	16	12429	90	1.00	95.3	95.8	95.6	0.78	0.84	0.87
	1192	8010	255	6.2	100%	250%	17	15580	88	1.00	95.3	95.7	95.6	0.74	0.82	0.85
	892	8010	261	5.7	70%	240%	21	16944	85	1.00	95.7	95.9	95.5	0.71	0.80	0.83
	715	8807	264	5.8	80%	200%	24	20060	85	1.00	95.6	95.8	95.5	0.69	0.78	0.82
	595	8809	285	5.6	90%	210%	24	22599	85	1.00	95.3	95.7	95.5	0.59	0.71	0.76
2250	3580	7011	267	6.4	60%	250%	15	12740	92	1.00	95.9	96.2	95.9	0.88	0.91	0.91
	1789	7010	280	6.2	80%	250%	16	13060	90	1.00	95.4	95.9	95.7	0.78	0.84	0.87
	1192	8010	286	6.2	100%	250%	17	16290	88	1.00	95.5	95.9	95.8	0.74	0.82	0.85
	894	8010	297	5.8	80%	240%	18	17414	85	1.00	95.5	95.9	95.7	0.68	0.78	0.82
	715	8808	297	5.8	80%	200%	24	21060	85	1.00	95.8	96.0	95.7	0.69	0.78	0.82
	596	10407	297	6.0	90%	220%	24	24034	85	1.00	95.6	95.8	95.6	0.69	0.78	0.82
2500	3580	7011	296	6.4	60%	250%	15	13285	92	1.00	96.1	96.4	96.1	0.88	0.91	0.91
	1790	7010	307	6.3	80%	230%	15	13876	90	1.00	95.7	96.1	95.9	0.82	0.87	0.88
	1192	8011	317	6.2	100%	250%	17	17000	88	1.00	95.7	96.1	96.0	0.74	0.82	0.85
	895	8807	318	6.0	90%	230%	19	19956	85	1.00	95.5	95.9	95.8	0.76	0.83	0.85
	715	8808	329	5.8	80%	200%	24	22055	85	1.00	96.0	96.2	95.9	0.69	0.78	0.82
	596	10408	330	6.0	90%	220%	24	25090	85	1.00	95.8	96.0	95.8	0.69	0.78	0.82
2750	3580	8011	326	6.4	60%	250%	14	16821	92	1.00	95.8	96.2	96.1	0.88	0.90	0.91
	1790	8010	336	6.0	70%	240%	17	16936	90	1.00	95.9	96.3	96.4	0.80	0.86	0.88
	1192	8011	348	6.2	100%	250%	17	17709	88	1.00	95.9	96.3	96.2	0.74	0.82	0.85
	895	8807	349	6.0	90%	230%	19	20725	85	1.00	95.7	96.1	96.0	0.76	0.83	0.85
	716	10407	350	5.7	70%	210%	30	24400	85	1.00	95.7	96.0	95.8	0.74	0.82	0.85
	596	10408	362	6.0	90%	220%	24	26151	85	1.00	96.0	96.2	96.0	0.69	0.78	0.82
3000	3580	8011	354	6.4	60%	250%	14	17555	92	1.00	96.0	96.4	96.3	0.88	0.90	0.91
	1790	8011	366	6.0	70%	240%	17	17729	90	1.00	96.0	96.4	96.5	0.80	0.86	0.88
	1194	8011	379	6.0	80%	220%	17	18891	88	1.00	96.1	96.5	96.5	0.76	0.83	0.85
	895	8808	380	6.0	90%	230%	19	21684	85	1.00	95.9	96.3	96.2	0.76	0.83	0.85
	716	10408	381	5.7	70%	210%	30	25505	85	1.00	95.9	96.2	96.0	0.74	0.82	0.85
	596	10408	394	6.0	90%	220%	24	27469	85	1.00	96.2	96.4	96.2	0.69	0.78	0.82
3500	3580	8011	413	6.4	60%	250%	14	18296	92	1.00	96.2	96.6	96.5	0.88	0.90	0.91
	1790	8011	426	6.0	70%	240%	17	18521	90	1.00	96.1	96.5	96.6	0.80	0.86	0.88
	1193	8807	454	6.0	70%	250%	17	20880	88	1.00	95.9	96.2	96.2	0.73	0.80	0.83
	895	8808	442	6.0	90%	230%	19	22650	85	1.00	96.1	96.5	96.4	0.76	0.83	0.85
	716	10408	443	5.7	70%	210%	30	26616	85	1.00	96.1	96.4	96.2	0.74	0.82	0.85
	596	12007	449	5.7	70%	200%	26	32004	88	1.00	96.1	96.2	96.0	0.76	0.82	0.84
3700	3585	8011	445	6.2	50%	230%	15	18821	92	1.00	96.4	96.7	96.7	0.86	0.89	0.89
	1791	8011	445	5.9	70%	210%	19	19590	90	1.00	96.5	96.8	96.7	0.84	0.88	0.89
	1193	8808	479	6.0	70%	250%	17	21825	88	1.00	96.1	96.4	96.4	0.73	0.80	0.83
	895	10407	458	5.9	70%	220%	23	25335	85	1.00	96.0	96.2	96.1	0.81	0.86	0.87
	716	10408	468	5.7	70%	210%	30	27945	85	1.00	96.3	96.6	96.4	0.74	0.82	0.85
	596	12007	474	5.7	70%	200%	26	33589	88	1.00	96.3	96.4	96.2	0.76	0.82	0.84
4000	3582	8809	473	6.0	40%	240%	15	21190	92	1.00	95.8	96.3	96.3	0.89	0.91	0.91
	1790	8809	488	6.4	80%	250%	11	21581	90	1.00	95.9	96.4	96.4	0.79	0.85	0.88
	1193	8808	517	6.0	70%	250%	17	22930	88	1.00	96.3	96.6	96.6	0.73	0.80	0.83
	895	10408	494	5.9	70%	220%	23	26565	85	1.00	96.2	96.4	96.3	0.81	0.86	0.87
	716	12007	514	5.8	70%	220%	21	33309	88	1.00	95.8	96.1	96.0	0.75	0.82	0.84
	596	12007	511	5.7	70%	200%	26	35434	88	1.00	96.5	96.6	96.4	0.76	0.82	0.84
4500	3582	8809	531	6.0	40%	240%	15	22251	92	1.00	96.0	96.5	96.5	0.89	0.91	0.91
	1790	8809	549	6.4	80%	250%	11	22736	90	1.00	96.0	96.5	96.5	0.79	0.85	0.88
	1193	8808	561	5.8	70%	220%	15	23620	88	1.00	96.5	96.7	96.6	0.79	0.85	0.86
	895	10408	555	5.9	70%	220%	23	27970	85	1.00	96.4	96.6	96.5	0.81	0.86	0.87
	716	12007	577	5.8	70%	220%	21	35064	88	1.00	96.0	96.3	96.2	0.75	0.82	0.84
	597	12806	576	6.0	60%	230%	29	45035	88	1.00	96.2	96.4	96.3	0.73	0.81	0.84
5000	3586	8809	603	5.9	40%	220%	13	22654	92	1.00	95.9	96.4	96.4	0.87	0.90	0.89
	1792	8809	608	6.2	70%	230%	12	22985	90	1.00	96.4	96.7	96.7	0.81	0.86	0.88
	1194	10406	610	6.0	80%	210%	14	25481	88	1.00	96.3	96.5	96.4	0.84	0.87	0.88
	895	10408	615	5.9	70%	220%	23	29555	85	1.00	96.6	96.8	96.7	0.81	0.86	0.87
	716	12008	639	5.8	70%	220%	21	37039	88	1.00	96.2	96.5	96.4	0.75	0.82	0.84
	597	12807	639	6.0	60%	230%	29	47035	88	1.00	96.4	96.6	96.5	0.73	0.81	0.84
6000	3586	8809	723	5.9	40%	220%	13	23876	92	1.00	96.1	96.6	96.6	0.87	0.90	0.89
	1792	8809	729	6.2	70%	230%	12	24295	90	1.00	96.5	96.8	96.8	0.81	0.86	0.88
	1194	10407	731	6.0	80%	210%	14	26821	88	1.00	96.5	96.7	96.6	0.84	0.87	0.88
	896	12007	739	5.9	60%	230%	21	33836	88	1.00	96.6	96.7	96.6	0.80	0.85	0.87
	716	12008	766	5.8	70%	220%	21	39235	88	1.00	96.4	96.7	96.6	0.75	0.82	0.84
	597	12807	765	6.0	60%	230%	29	49259	88	1.00	96.6	96.8	96.7	0.73	0.81	0.84

M Line Medium Voltage Motors

MGF TEAAC 60Hz 4160V - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			4160V								50%	75%	100%	50%	75%	100%
7000	3585	10408	829	6.2	50%	230%	10	27000	92	1.00	95.7	96.1	96.1	0.90	0.92	0.91
	1793	10409	832	6.3	70%	230%	17	28675	90	1.00	96.5	96.8	96.8	0.86	0.89	0.90
	1194	10407	851	6.0	80%	210%	14	28159	88	1.00	96.7	96.9	96.8	0.84	0.87	0.88
	896	12007	861	5.9	60%	230%	21	35434	88	1.00	96.8	96.9	96.8	0.80	0.85	0.87
	717	12806	892	5.6	50%	210%	29	48534	88	1.00	96.5	96.7	96.7	0.75	0.82	0.84
	597	12807	890	6.0	60%	230%	29	51486	88	1.00	96.8	97.0	96.9	0.73	0.81	0.84
7500	3585	10408	886	6.2	50%	230%	10	28316	92	1.00	95.9	96.3	96.3	0.90	0.92	0.91
	1793	10409	890	6.3	70%	230%	17	30190	90	1.00	96.6	96.9	96.9	0.86	0.89	0.90
	1194	12007	915	5.9	70%	220%	13	32555	90	1.00	96.2	96.5	96.4	0.83	0.87	0.88
	896	12008	920	5.9	60%	230%	21	37359	88	1.00	97.0	97.1	97.0	0.80	0.85	0.87
	717	12807	954	5.6	50%	210%	29	50860	88	1.00	96.7	96.9	96.9	0.75	0.82	0.84
	597	14406	981	5.4	50%	200%	29	59054	90	1.00	96.6	96.7	96.5	0.71	0.79	0.82
8000	3585	10408	943	6.2	50%	230%	10	29850	92	1.00	96.1	96.5	96.5	0.90	0.92	0.91
	1793	10409	949	6.3	70%	230%	17	31955	90	1.00	96.7	97.0	97.0	0.86	0.89	0.90
	1194	12008	974	5.9	70%	220%	13	34204	90	1.00	96.4	96.7	96.6	0.83	0.87	0.88
	896	12008	980	5.9	60%	230%	21	39601	88	1.00	97.2	97.3	97.2	0.80	0.85	0.87
	717	12807	1016	5.6	50%	210%	29	53569	88	1.00	96.9	97.1	97.1	0.75	0.82	0.84
	597	14406	1045	5.4	50%	200%	29	61545	90	1.00	96.8	96.9	96.7	0.71	0.79	0.82
9000	1794	12008	1070	6.1	60%	220%	16	35280	92	1.00	96.6	96.8	96.8	0.88	0.90	0.90
	1194	12008	1094	5.9	70%	220%	13	36089	90	1.00	96.6	96.9	96.8	0.83	0.87	0.88
	897	12806	1159	5.8	60%	210%	12	48241	88	1.00	96.7	96.9	96.9	0.69	0.79	0.83
	717	14406	1118	5.8	60%	230%	18	63494	90	1.00	96.8	96.9	96.9	0.77	0.84	0.86
	597	14406	1173	5.4	50%	200%	29	64396	90	1.00	97.0	97.1	96.9	0.71	0.79	0.82
10000	1794	12009	1187	6.1	60%	220%	16	37220	92	1.00	96.7	96.9	96.9	0.88	0.90	0.90
	1194	12008	1213	5.9	70%	220%	13	38210	90	1.00	96.8	97.1	97.0	0.83	0.87	0.88
	897	12806	1285	5.8	60%	210%	12	50776	88	1.00	96.9	97.1	97.1	0.69	0.79	0.83
	717	14407	1240	5.8	60%	230%	18	66594	90	1.00	97.0	97.1	97.1	0.77	0.84	0.86
	597	14407	1300	5.4	50%	200%	29	67595	90	1.00	97.2	97.3	97.1	0.71	0.79	0.82
12500	1794	12009	1483	6.1	60%	220%	16	39369	92	1.00	96.8	97.0	97.0	0.88	0.90	0.90
	1196	12807	1518	6.1	60%	230%	11	50106	90	1.00	96.7	96.9	96.9	0.81	0.86	0.88
	897	12806	1603	5.8	60%	210%	12	53596	88	1.00	97.1	97.3	97.3	0.69	0.79	0.83
	717	14407	1547	5.8	60%	230%	18	70044	90	1.00	97.2	97.3	97.3	0.77	0.84	0.86
	597	14407	1622	5.4	50%	200%	29	71155	90	1.00	97.4	97.5	97.3	0.71	0.79	0.82
13500	1794	12009	1599	6.1	60%	220%	16	41519	92	1.00	96.9	97.1	97.1	0.88	0.90	0.90
	1196	12807	1636	6.1	60%	230%	11	52445	90	1.00	96.9	97.1	97.1	0.81	0.86	0.88
	897	14406	1695	5.7	50%	220%	22	68205	90	1.00	97.1	97.1	97.0	0.76	0.83	0.85
	718	16007	1714	5.7	50%	230%	24	86301	90	1.00	96.9	97.1	97.1	0.75	0.82	0.84
	597	16007	1712	5.8	60%	210%	14	86254	90	1.00	97.3	97.3	97.2	0.73	0.81	0.84
15000	1794	12807	1799	6.3	60%	230%	9	52326	92	1.00	96.7	97.0	97.0	0.85	0.89	0.89
	1196	12807	1814	6.1	60%	230%	11	55249	90	1.00	97.1	97.3	97.3	0.81	0.86	0.88
	897	14407	1880	5.7	50%	220%	22	71715	90	1.00	97.3	97.3	97.2	0.76	0.83	0.85
	718	16007	1900	5.7	50%	230%	24	90761	90	1.00	97.1	97.3	97.3	0.75	0.82	0.84
17500	1794	12807	2097	6.3	60%	230%	9	55035	92	1.00	96.8	97.1	97.1	0.85	0.89	0.89
	1195	14407	2120	5.8	60%	220%	15	66821	92	1.00	97.3	97.3	97.1	0.85	0.87	0.88
	897	14407	2189	5.7	50%	220%	22	75520	90	1.00	97.5	97.5	97.4	0.76	0.83	0.85
20000	1794	12807	2394	6.3	60%	230%	9	58159	92	1.00	96.9	97.2	97.2	0.85	0.89	0.89
	1195	14407	2418	5.8	60%	220%	15	70174	92	1.00	97.5	97.5	97.3	0.85	0.87	0.88
	897	16006	2441	5.8	50%	230%	15	82961	90	1.00	97.6	97.7	97.5	0.79	0.85	0.87
22500	1794	14407	2663	5.9	60%	220%	11	73234	94	1.00	97.0	97.3	97.2	0.87	0.90	0.90
	1196	16006	2718	5.5	50%	210%	15	79290	92	1.00	97.5	97.5	97.4	0.84	0.87	0.88

M Line Medium Voltage Motors

MGP WP-II 60Hz 4160V - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			4160V								50%	75%	100%	50%	75%	100%
300	1180	5009	41.3	5.5	90%	200%	16	4334	80	1.00	93.9	93.7	92.8	0.71	0.79	0.81
	883	5811	43.6	5.2	120%	210%	16	5970	78	1.00	93.5	93.4	92.6	0.62	0.72	0.77
350	1180	5010	48.1	5.5	90%	200%	16	4484	80	1.00	94.1	93.9	93.0	0.71	0.79	0.81
	883	5811	50.7	5.2	120%	210%	16	6155	78	1.00	93.7	93.6	92.8	0.62	0.72	0.77
370	1180	5010	50.7	5.5	90%	200%	16	4660	80	1.00	94.3	94.1	93.2	0.71	0.79	0.81
	883	5811	53.5	5.2	120%	210%	16	6376	78	1.00	93.9	93.8	93.0	0.62	0.72	0.77
400	3565	5010	48.0	6.4	60%	230%	8	3979	85	1.00	94.4	94.4	93.7	0.89	0.91	0.92
	1775	5009	51.4	5.5	110%	220%	9	4094	82	1.00	93.9	94.2	93.7	0.75	0.83	0.86
	1180	5011	54.7	5.5	90%	200%	16	4859	80	1.00	94.5	94.3	93.4	0.71	0.79	0.81
	883	5811	57.7	5.2	120%	210%	16	6636	78	1.00	94.1	94.0	93.2	0.62	0.72	0.77
450	3565	5011	53.9	6.4	60%	230%	8	4109	85	1.00	94.6	94.6	93.9	0.89	0.91	0.92
	1775	5010	57.8	5.5	110%	220%	9	4231	82	1.00	94.0	94.3	93.8	0.75	0.83	0.86
	1180	5011	61.5	5.5	90%	200%	16	5095	80	1.00	94.7	94.5	93.6	0.71	0.79	0.81
	883	5812	64.8	5.2	120%	210%	16	6929	78	1.00	94.3	94.2	93.4	0.62	0.72	0.77
	710	6810	70.2	5.2	120%	190%	20	8071	78	1.00	93.4	93.9	93.5	0.55	0.66	0.71
500	3565	5011	59.8	6.4	60%	230%	8	4255	85	1.00	94.8	94.8	94.1	0.89	0.91	0.92
	1775	5010	64.1	5.5	110%	220%	9	4385	82	1.00	94.1	94.4	93.9	0.75	0.83	0.86
	1188	5810	66.0	6.2	90%	230%	16	6155	80	1.00	94.7	94.9	94.5	0.71	0.80	0.83
	890	6809	66.5	5.8	90%	240%	21	7961	78	1.00	94.1	94.3	93.8	0.71	0.79	0.83
	710	6810	77.8	5.2	120%	190%	20	8399	78	1.00	93.6	94.1	93.7	0.55	0.66	0.71
	591	7009	80.7	5.0	70%	170%	33	9760	78	1.00	93.3	93.6	93.0	0.53	0.64	0.69
600	3565	5011	71.6	6.4	60%	230%	8	4416	85	1.00	95.0	95.0	94.3	0.89	0.91	0.92
	1775	5011	76.8	5.5	110%	220%	9	4555	82	1.00	94.2	94.5	94.0	0.75	0.83	0.86
	1188	5811	79.0	6.2	90%	230%	16	6384	80	1.00	94.9	95.1	94.7	0.71	0.80	0.83
	890	6809	79.6	5.8	90%	240%	21	8254	78	1.00	94.3	94.5	94.0	0.71	0.79	0.83
	710	6810	93.2	5.2	120%	190%	20	8765	78	1.00	93.8	94.3	93.9	0.55	0.66	0.71
	591	7009	96.6	5.0	70%	170%	33	10146	78	1.00	93.5	93.8	93.2	0.53	0.64	0.69
700	3565	5011	83.4	6.4	60%	230%	8	4575	85	1.00	95.2	95.2	94.5	0.89	0.91	0.92
	1775	5011	89.6	5.5	110%	220%	9	4731	82	1.00	94.3	94.6	94.1	0.75	0.83	0.86
	1188	5811	92.0	6.2	90%	230%	16	6620	80	1.00	95.1	95.3	94.9	0.71	0.80	0.83
	890	6810	92.7	5.8	90%	240%	21	8549	78	1.00	94.5	94.7	94.2	0.71	0.79	0.83
	712	7009	101	6.0	120%	200%	17	10024	78	1.00	94.1	94.4	94.1	0.59	0.71	0.76
	591	7009	113	5.0	70%	170%	33	10536	78	1.00	93.7	94.0	93.4	0.53	0.64	0.69
750	3569	5811	91.4	6.3	60%	230%	8	5595	85	1.00	95.0	95.0	94.4	0.85	0.89	0.90
	1781	5811	94.1	5.6	110%	190%	13	6325	82	1.00	95.1	95.3	94.9	0.80	0.85	0.87
	1188	5812	98.4	6.2	90%	230%	16	6900	80	1.00	95.3	95.5	95.1	0.71	0.80	0.83
	890	6810	99.1	5.8	90%	240%	21	8900	78	1.00	94.7	94.9	94.4	0.71	0.79	0.83
	712	7010	108	6.0	120%	200%	17	10421	78	1.00	94.3	94.6	94.3	0.59	0.71	0.76
	591	7010	120	5.0	70%	170%	33	11001	78	1.00	93.9	94.2	93.6	0.53	0.64	0.69
800	3569	5811	97.3	6.3	60%	230%	8	5769	85	1.00	95.2	95.2	94.6	0.85	0.89	0.90
	1781	5811	100	5.6	110%	190%	13	6581	82	1.00	95.2	95.4	95.0	0.80	0.85	0.87
	1187	6809	103	6.1	90%	220%	12	8119	80	1.00	94.9	95.0	94.5	0.75	0.82	0.85
	890	6811	106	5.8	90%	240%	21	9314	78	1.00	94.9	95.1	94.6	0.71	0.79	0.83
	712	7010	115	6.0	120%	200%	17	10875	78	1.00	94.5	94.8	94.5	0.59	0.71	0.76
	591	7010	128	5.0	70%	170%	33	11545	78	1.00	94.1	94.4	93.8	0.53	0.64	0.69
900	3569	5812	109	6.3	60%	230%	8	5970	85	1.00	95.4	95.4	94.8	0.85	0.89	0.90
	1781	5812	113	5.6	110%	190%	13	6876	82	1.00	95.3	95.5	95.1	0.80	0.85	0.87
	1187	6810	116	6.1	90%	220%	12	8439	80	1.00	95.1	95.2	94.7	0.75	0.82	0.85
	890	6811	118	5.8	90%	240%	21	9784	78	1.00	95.1	95.3	94.8	0.71	0.79	0.83
	712	7011	130	6.0	120%	200%	17	11400	78	1.00	94.7	95.0	94.7	0.59	0.71	0.76
	593	8009	141	5.0	70%	190%	32	13845	85	1.00	94.4	94.7	94.3	0.53	0.64	0.70
1000	3569	5812	121	6.3	60%	230%	8	6195	85	1.00	95.6	95.6	95.0	0.85	0.89	0.90
	1781	5812	125	5.6	110%	190%	13	7200	82	1.00	95.4	95.6	95.2	0.80	0.85	0.87
	1187	6810	128	6.1	90%	220%	12	8805	80	1.00	95.3	95.4	94.9	0.75	0.82	0.85
	894	7009	133	5.8	90%	220%	19	10765	78	1.00	95.3	95.5	95.1	0.70	0.79	0.82
	712	7011	144	6.0	120%	200%	17	11991	78	1.00	94.9	95.2	94.9	0.59	0.71	0.76
	593	8010	157	5.0	70%	190%	32	14396	85	1.00	94.6	94.9	94.5	0.53	0.64	0.70
1250	3569	5812	151	6.3	60%	230%	8	6440	85	1.00	95.8	95.8	95.2	0.85	0.89	0.90
	1786	6809	154	6.3	90%	250%	15	8170	82	1.00	95.7	95.8	95.5	0.79	0.86	0.88
	1187	6811	160	6.1	90%	220%	12	9204	80	1.00	95.5	95.6	95.1	0.75	0.82	0.85
	894	7010	166	5.8	90%	220%	19	11285	78	1.00	95.5	95.7	95.3	0.70	0.79	0.82
	714	8008	182	6.1	90%	210%	19	13860	85	1.00	94.6	95.0	94.8	0.57	0.69	0.75
	593	8010	195	5.0	70%	190%	32	15011	85	1.00	94.8	95.1	94.7	0.53	0.64	0.70
1350	3570	6810	163	6.3	60%	220%	9	8150	85	1.00	95.7	95.7	95.2	0.87	0.90	0.90
	1786	6810	166	6.3	90%	250%	15	8459	82	1.00	95.8	95.9	95.6	0.79	0.86	0.88
	1187	6811	173	6.1	90%	220%	12	9610	80	1.00	95.7	95.8	95.3	0.75	0.82	0.85
	894	7010	179	5.8	90%	220%	19	11799	78	1.00	95.7	95.9	95.5	0.70	0.79	0.82
	714	8009	196	6.1	90%	210%	19	14345	85	1.00	94.8	95.2	95.0	0.57	0.69	0.75
	593	8010	189	5.0	70%	170%	32	15359	85	1.00	95.3	95.3	94.7	0.65	0.75	0.78
1500	3570	6811	181	6.3	60%	220%	9	8470	85	1.00	95.9	95.9	95.4	0.87	0.90	0.90
	1786	6810	184	6.3	90%	250%	15	8805	82	1.00	95.9	96.0	95.7	0.79	0.86	0.88
	1189	7010	190	5.7	90%	200%	16	10690	80	1.00	95.6	95.7	95.2	0.79	0.85	0.86
	892	8009	199	5.9	80%	250%	17	13671	85	1.00	95.3	95.5	95.1	0.68	0.77	0.82
	714	8009	218	6.1	90%	210%	19	14929	85	1.00	95.0	95.4	95.2	0.57	0.69	0.75
	594	8808	213	5.0	80%	180%	24	17749	85	1.00	95.1	95.3	94.8	0.64	0.73	0.77

M Line Medium Voltage Motors

MGP WP-II 60Hz 4160V - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			4160V								50%	75%	100%	50%	75%	100%
1750	3570	6811	211	6.3	60%	220%	9	8810	85	1.00	96.1	96.1	95.6	0.87	0.90	0.90
	1786	6811	215	6.3	90%	250%	15	9180	82	1.00	96.0	96.1	95.8	0.79	0.86	0.88
	1189	7010	221	5.7	90%	200%	16	11151	80	1.00	95.8	95.9	95.4	0.79	0.85	0.86
	892	8009	232	5.9	80%	250%	17	14160	85	1.00	95.5	95.7	95.3	0.68	0.77	0.82
	714	8010	253	6.1	90%	210%	19	15564	85	1.00	95.2	95.6	95.4	0.57	0.69	0.75
	594	8809	248	5.0	80%	180%	24	18470	85	1.00	95.3	95.5	95.0	0.64	0.73	0.77
2000	3570	6811	240	6.3	60%	220%	9	9204	85	1.00	96.3	96.3	95.8	0.87	0.90	0.90
	1786	6811	245	6.3	90%	250%	15	9614	82	1.00	96.1	96.2	95.9	0.79	0.86	0.88
	1189	7010	252	5.7	90%	200%	16	11684	80	1.00	96.0	96.1	95.6	0.79	0.85	0.86
	892	8010	264	5.9	80%	250%	17	14731	85	1.00	95.7	95.9	95.5	0.68	0.77	0.82
	714	8010	289	6.1	90%	210%	19	16294	85	1.00	95.4	95.8	95.6	0.57	0.69	0.75
	594	8809	283	5.0	80%	180%	24	19295	85	1.00	95.5	95.7	95.2	0.64	0.73	0.77
2250	3578	7010	267	6.4	60%	220%	9	10351	85	1.00	96.0	96.0	95.8	0.89	0.91	0.91
	1787	7010	278	5.9	80%	220%	14	10829	82	1.00	96.2	96.4	96.2	0.80	0.86	0.87
	1189	7011	283	5.7	90%	200%	16	12394	80	1.00	96.2	96.3	95.8	0.79	0.85	0.86
	892	8010	297	5.9	80%	250%	17	15481	85	1.00	95.9	96.1	95.7	0.68	0.77	0.82
	715	8807	293	5.5	80%	200%	24	18194	85	1.00	96.0	96.1	95.8	0.72	0.80	0.83
	594	8809	317	5.0	80%	180%	24	20399	85	1.00	95.7	95.9	95.4	0.64	0.73	0.77
2500	3578	7010	296	6.4	60%	220%	9	10780	85	1.00	96.2	96.2	96.0	0.89	0.91	0.91
	1787	7010	309	5.9	80%	220%	14	11365	82	1.00	96.3	96.5	96.3	0.80	0.86	0.87
	1191	8009	321	6.1	90%	230%	16	13664	85	1.00	96.1	96.2	96.0	0.72	0.81	0.84
	893	8010	325	5.7	90%	210%	13	15875	85	1.00	96.2	96.3	95.9	0.72	0.80	0.83
	715	8808	325	5.5	80%	200%	24	19094	85	1.00	96.2	96.3	96.0	0.72	0.80	0.83
	596	10407	326	5.4	80%	190%	24	21384	85	1.00	95.9	95.9	95.6	0.72	0.80	0.83
2750	3578	7011	325	6.4	60%	220%	9	11210	85	1.00	96.4	96.4	96.2	0.89	0.91	0.91
	1787	7010	340	5.9	80%	220%	14	11900	82	1.00	96.4	96.6	96.4	0.80	0.86	0.87
	1191	8009	352	6.1	90%	230%	16	14231	85	1.00	96.3	96.4	96.2	0.72	0.81	0.84
	894	8807	345	5.6	80%	200%	19	17866	85	1.00	96.1	96.2	95.9	0.78	0.84	0.86
	715	8808	357	5.5	80%	200%	24	19989	85	1.00	96.4	96.5	96.2	0.72	0.80	0.83
	596	10408	358	5.4	80%	190%	24	22335	85	1.00	96.1	96.1	95.8	0.72	0.80	0.83
3000	3578	7011	354	6.4	60%	220%	9	11750	85	1.00	96.6	96.6	96.4	0.89	0.91	0.91
	1789	7010	365	6.3	90%	230%	11	12401	82	1.00	96.6	96.7	96.6	0.81	0.86	0.88
	1191	8010	384	6.1	90%	230%	16	14940	85	1.00	96.5	96.6	96.4	0.72	0.81	0.84
	894	8807	376	5.6	80%	200%	19	18726	85	1.00	96.3	96.4	96.1	0.78	0.84	0.86
	716	10407	386	5.6	70%	210%	27	21629	85	1.00	96.1	96.2	95.9	0.73	0.81	0.84
	596	10408	390	5.4	80%	190%	24	23521	85	1.00	96.3	96.3	96.0	0.72	0.80	0.83
3500	3581	8011	417	6.4	50%	230%	14	15425	90	1.00	96.7	96.8	96.6	0.87	0.90	0.90
	1789	8010	431	6.0	80%	240%	12	14969	88	1.00	96.9	96.9	96.7	0.78	0.85	0.87
	1191	8010	447	6.1	90%	230%	16	15646	85	1.00	96.7	96.8	96.6	0.72	0.81	0.84
	894	8808	438	5.6	80%	200%	19	19586	85	1.00	96.5	96.6	96.3	0.78	0.84	0.86
	716	10408	449	5.6	70%	210%	27	22610	85	1.00	96.3	96.4	96.1	0.73	0.81	0.84
	596	10408	454	5.4	80%	190%	24	24709	85	1.00	96.5	96.5	96.2	0.72	0.80	0.83
3700	3581	8011	440	6.4	50%	230%	14	16175	90	1.00	96.9	97.0	96.8	0.87	0.90	0.90
	1789	8011	455	6.0	80%	240%	12	15710	88	1.00	97.0	97.0	96.8	0.78	0.85	0.87
	1192	8011	461	6.0	80%	220%	15	17004	85	1.00	96.9	96.9	96.7	0.78	0.84	0.86
	894	8808	462	5.6	80%	200%	19	20615	85	1.00	96.7	96.8	96.5	0.78	0.84	0.86
	716	10408	474	5.6	70%	210%	27	23790	85	1.00	96.5	96.6	96.3	0.73	0.81	0.84
	596	12007	470	5.6	70%	190%	23	28580	85	1.00	96.1	96.1	95.9	0.79	0.84	0.85
4000	3581	8011	476	6.3	60%	220%	7	16301	90	1.00	96.8	96.9	96.7	0.87	0.90	0.90
	1789	8011	491	6.0	80%	240%	12	16570	88	1.00	97.1	97.1	96.9	0.78	0.85	0.87
	1192	8807	517	5.5	70%	210%	16	18924	85	1.00	96.8	96.7	96.5	0.73	0.80	0.83
	894	10407	495	5.8	70%	210%	16	22425	85	1.00	96.4	96.4	96.2	0.80	0.85	0.87
	716	10408	511	5.6	70%	210%	27	25161	85	1.00	96.7	96.8	96.5	0.73	0.81	0.84
	596	12007	507	5.6	70%	190%	23	30220	85	1.00	96.3	96.3	96.1	0.79	0.84	0.85
4500	3581	8011	534	6.3	60%	220%	7	17205	90	1.00	97.0	97.1	96.9	0.87	0.90	0.90
	1787	8011	541	5.9	80%	220%	10	17606	88	1.00	97.2	97.1	96.8	0.84	0.88	0.89
	1192	8808	581	5.5	70%	210%	16	19936	85	1.00	97.0	96.9	96.7	0.73	0.80	0.83
	894	10408	556	5.8	70%	210%	16	23651	85	1.00	96.6	96.6	96.4	0.80	0.85	0.87
	716	12007	570	5.8	70%	200%	20	30086	85	1.00	96.1	96.2	96.1	0.77	0.83	0.85
	596	12007	569	5.6	70%	190%	23	32094	85	1.00	96.5	96.5	96.3	0.79	0.84	0.85
5000	3582	8809	595	6.2	40%	240%	15	19365	90	1.00	96.5	96.7	96.6	0.86	0.89	0.90
	1789	8809	607	6.0	70%	240%	10	19515	88	1.00	97.1	97.2	97.0	0.80	0.86	0.88
	1192	8808	644	5.5	70%	210%	16	21069	85	1.00	97.2	97.1	96.9	0.73	0.80	0.83
	894	10408	616	5.8	70%	210%	16	25031	85	1.00	96.8	96.8	96.6	0.80	0.85	0.87
	716	12008	632	5.8	70%	200%	20	31865	85	1.00	96.3	96.4	96.3	0.77	0.83	0.85
	596	12806	633	5.6	60%	200%	20	40011	85	1.00	96.5	96.5	96.2	0.76	0.83	0.85
6000	3582	8809	713	6.2	40%	240%	15	20434	90	1.00	96.7	96.9	96.8	0.86	0.89	0.90
	1789	8809	727	6.0	70%	240%	10	20659	88	1.00	97.2	97.3	97.1	0.80	0.86	0.88
	1192	8808	754	5.6	70%	220%	12	21565	85	1.00	97.2	97.2	96.9	0.76	0.83	0.85
	894	10408	738	5.8	70%	210%	16	26565	85	1.00	97.0	97.0	96.8	0.80	0.85	0.87
	716	12008	757	5.8	70%	200%	20	33840	85	1.00	96.5	96.6	96.5	0.77	0.83	0.85
	596	12807	758	5.6	60%	200%	20	41975	85	1.00	96.7	96.7	96.4	0.76	0.83	0.85

M Line Medium Voltage Motors

MGP WP-II 60Hz 4160V - Electrical Data

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP			4160V								50%	75%	100%	50%	75%	100%
7000	3584	8809	832	6.2	40%	220%	11	20485	90	1.00	96.8	97.0	96.8	0.87	0.90	0.90
	1790	8809	829	5.6	70%	210%	10	20970	88	1.00	97.4	97.3	97.1	0.87	0.90	0.90
	1193	10408	853	5.8	70%	210%	11	23399	85	1.00	97.0	96.9	96.6	0.84	0.88	0.88
	896	12007	862	5.5	60%	200%	21	30229	85	1.00	97.0	96.9	96.6	0.82	0.86	0.87
	716	12008	882	5.8	70%	200%	20	35820	85	1.00	96.7	96.8	96.7	0.77	0.83	0.85
	596	12807	883	5.6	60%	200%	20	43940	85	1.00	96.9	96.9	96.6	0.76	0.83	0.85
7500	3584	8809	890	6.2	40%	220%	11	21649	90	1.00	97.0	97.2	97.0	0.87	0.90	0.90
	1790	8809	888	5.6	70%	210%	10	22240	88	1.00	97.5	97.4	97.2	0.87	0.90	0.90
	1193	10408	912	5.8	70%	210%	11	24680	85	1.00	97.2	97.1	96.8	0.84	0.88	0.88
	896	12007	922	5.5	60%	200%	21	31936	85	1.00	97.2	97.1	96.8	0.82	0.86	0.87
	717	12806	978	6.0	50%	210%	23	43589	85	1.00	96.7	96.9	96.8	0.71	0.79	0.82
	596	12807	944	5.6	60%	200%	20	46301	85	1.00	97.1	97.1	96.8	0.76	0.83	0.85
8000	3587	10408	961	6.4	40%	230%	8	24266	90	1.00	96.7	96.9	96.8	0.85	0.89	0.89
	1793	10409	948	6.2	70%	230%	16	25851	88	1.00	97.3	97.3	97.1	0.88	0.89	0.90
	1193	10408	970	5.8	70%	210%	11	26171	85	1.00	97.4	97.3	97.0	0.84	0.88	0.88
	896	12008	982	5.5	60%	200%	21	33924	85	1.00	97.4	97.3	97.0	0.82	0.86	0.87
	717	12807	1041	6.0	50%	210%	23	46010	85	1.00	96.9	97.1	97.0	0.71	0.79	0.82
	597	14406	1024	5.3	60%	190%	17	51625	88	1.00	96.6	96.5	96.3	0.76	0.82	0.84
9000	3587	10408	1079	6.4	40%	230%	8	25650	90	1.00	96.9	97.1	97.0	0.85	0.89	0.89
	1793	10409	1065	6.2	70%	230%	16	27445	88	1.00	97.4	97.4	97.2	0.88	0.89	0.90
	1194	12007	1096	5.8	60%	220%	11	29184	88	1.00	96.9	96.9	96.6	0.81	0.86	0.88
	896	12008	1102	5.5	60%	200%	21	36199	85	1.00	97.6	97.5	97.2	0.82	0.86	0.87
	717	12807	1169	6.0	50%	210%	23	48774	85	1.00	97.1	97.3	97.2	0.71	0.79	0.82
	597	14406	1150	5.3	60%	190%	17	54184	88	1.00	96.8	96.7	96.5	0.76	0.82	0.84
10000	3587	10408	1197	6.4	40%	230%	8	27205	90	1.00	97.1	97.3	97.2	0.85	0.89	0.89
	1793	10409	1182	6.2	70%	230%	16	29246	88	1.00	97.5	97.5	97.3	0.88	0.89	0.90
	1194	12008	1215	5.8	60%	220%	11	30860	88	1.00	97.1	97.1	96.8	0.81	0.86	0.88
	896	12805	1229	5.7	60%	210%	11	41495	85	1.00	97.1	97.0	96.8	0.79	0.85	0.87
	716	14405	1245	5.0	50%	180%	18	51869	88	1.00	97.0	96.9	96.7	0.81	0.85	0.86
	597	14406	1275	5.3	60%	190%	17	57066	88	1.00	97.0	96.9	96.7	0.76	0.82	0.84
12500	1793	12008	1481	5.5	60%	200%	14	33064	90	1.00	97.4	97.3	97.1	0.89	0.90	0.90
	1194	12008	1516	5.8	60%	220%	11	32720	88	1.00	97.3	97.3	97.0	0.81	0.86	0.88
	896	12806	1534	5.7	60%	210%	11	43765	85	1.00	97.3	97.2	97.0	0.79	0.85	0.87
	716	14406	1553	5.0	50%	180%	18	54546	88	1.00	97.2	97.1	96.9	0.81	0.85	0.86
	597	14407	1590	5.3	60%	190%	17	60269	88	1.00	97.2	97.1	96.9	0.76	0.82	0.84
13500	1793	12009	1598	5.5	60%	200%	14	34901	90	1.00	97.5	97.4	97.2	0.89	0.90	0.90
	1194	12008	1634	5.8	60%	220%	11	34579	88	1.00	97.5	97.5	97.2	0.81	0.86	0.88
	896	12806	1653	5.7	60%	210%	11	46030	85	1.00	97.5	97.4	97.2	0.79	0.85	0.87
	716	14406	1674	5.0	50%	180%	18	57224	88	1.00	97.4	97.3	97.1	0.81	0.85	0.86
	597	14407	1714	5.3	60%	190%	17	63470	88	1.00	97.4	97.3	97.1	0.76	0.82	0.84
15000	1793	12009	1774	5.5	60%	200%	14	37101	90	1.00	97.6	97.5	97.3	0.89	0.90	0.90
	1196	12807	1818	6.5	70%	240%	11	45990	88	1.00	97.2	97.2	97.1	0.80	0.86	0.88
	896	12806	1833	5.7	60%	210%	11	48750	85	1.00	97.7	97.6	97.4	0.79	0.85	0.87
	716	14406	1856	5.0	50%	180%	18	60434	88	1.00	97.6	97.5	97.3	0.81	0.85	0.86
	597	16007	1904	5.4	60%	190%	14	76210	88	1.00	97.5	97.4	97.1	0.75	0.82	0.84
17500	1793	12009	2067	5.5	60%	200%	14	39484	90	1.00	97.7	97.6	97.4	0.89	0.90	0.90
	1196	12807	2116	6.5	70%	240%	11	48521	88	1.00	97.4	97.4	97.3	0.80	0.86	0.88
	896	14406	2172	5.0	40%	190%	20	59874	88	1.00	97.5	97.3	97.0	0.79	0.85	0.86
	717	16007	2193	5.0	40%	180%	24	76636	88	1.00	97.5	97.5	97.2	0.80	0.84	0.85
20000	1794	12806	2365	5.7	60%	210%	11	46629	90	1.00	97.6	97.5	97.3	0.87	0.89	0.90
	1196	12807	2413	6.5	70%	240%	11	51435	88	1.00	97.6	97.6	97.5	0.80	0.86	0.88
	896	14407	2477	5.0	40%	190%	20	63296	88	1.00	97.7	97.5	97.2	0.79	0.85	0.86
	717	16007	2501	5.0	40%	180%	24	81096	88	1.00	97.7	97.7	97.4	0.80	0.84	0.85
22500	1794	12807	2658	5.7	60%	210%	11	49839	90	1.00	97.7	97.6	97.4	0.87	0.89	0.90
	1196	14407	2718	6.4	60%	240%	11	59026	90	1.00	97.6	97.5	97.4	0.82	0.87	0.88
	896	14407	2781	5.0	40%	190%	20	67859	88	1.00	97.9	97.7	97.4	0.79	0.85	0.86
25000	1794	12807	2950	5.7	60%	210%	11	53049	90	1.00	97.8	97.7	97.5	0.87	0.89	0.90
	1196	14407	3014	6.4	60%	240%	11	62489	90	1.00	97.8	97.7	97.6	0.82	0.87	0.88
	897	16006	3048	5.5	50%	210%	15	79400	88	1.00	97.9	97.8	97.6	0.81	0.85	0.87
27000	1794	14407	3189	5.5	50%	200%	11	66190	92	1.00	97.7	97.7	97.4	0.88	0.90	0.90
	1196	16006	3255	6.0	50%	240%	13	74826	90	1.00	97.7	97.7	97.6	0.79	0.85	0.88

W60 Medium Voltage Motors

Standard Features

- Rated output: 550 to 21,250HP
- Three-phase, 2, 4, 6, 8, 10 and 12 poles, 60Hz
- Voltage: 2,300 V to 13.8 kV
- Cast iron frames 7000 to 8800 and welded steel plates for 10400 to 16000
- Cooling methods used:
  - IC611 & IP55 / TEAAC
  - OC01 & IP24 / WP-II
  - IC81W & IP55 / TEWAC
- Degree of Protection: IP24 to IP55
- Service duty: (S1)
- Class “F” insulation for all frames. Temperature rise limited to Class “B” (80K)
- Service Factor: 1.00
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- Temperature detector: PT100, 1 per bearing with 3 wires
- Temperature detector: PT100, 2 per phase with 3 wires
- Split Accessory terminal box (for signal accessories and for those accessories requiring power - space heater)
- Single phase space heater
- Labyrinth tachonite in grease lubricated bearings
- Grease lubricated bearings:
  - From frame 7004 to 8804
  - Frame 8806 for 4 Poles and above
  - Frame 10406 for 6 Poles and above
  - Frame 12006 for 8 Poles and above
  - Frame 14400 for 8 Poles and above
- Other ratings and larger frames may be built with Sleeve bearings self-lubricated or forced lubricated, call for details
- Electrically insulated non-drive end bearing, when connected directly to the power supply
- Painting: Acrylic polyurethane Polyamide epoxy (Final coat: Blue RAL 5007)
- Stainless steel nameplate
- Grounding lug 2 on the frame and 1 on main terminal box
- 3 connection terminals in the power terminal box (with terminal block)
- Nema II Steel fabricated Main Conduit Box
- Copper bar rotor
-

Optional Features

- 50Hz
- VFD application
- Service Factor: 1.15
- Class of insulation: H
- Temperature rise: 105°K for class F
- Temperature rise: 125°K for class H
- Ambient temperature above 40 °C
- Altitude above 1000 m
- Degree of Protection IPW55 and above
- Classified area application: Ex-n, Ex-e, Ex-p
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded terminal box in different sizes, based on internal available space
- Power factor correction capacitors
- Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- One or more accessory terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, special steel
- Sleeve bearing
- Special painting
- Cable gland in the terminal box entrance
- Protection against voltage surge: Lighting arrestors and Capacitors
- Vibration detector
- Encoder
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- Independent hydraulic oil circulation system for sleeve bearing
- Both bearings are electrically insulated
- Grounding brush on drive end (except for classified area)

W60 Medium Voltage Motors

TEAAC 60Hz 4160V - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Efficiency (%)			Power factor		
HP	kW			4160V							50%	75%	100%	50%	75%	100%
950	710	1188	70	124	5.9	100%	210%	12	10450	77	94.3	95.1	95.0	0.76	0.82	0.85
1000	750	1189	70	128	6.0	100%	200%	11	10478	77	94.4	95.1	95.0	0.76	0.82	0.85
1050	800	1189	70	141	5.7	100%	200%	11	10530	77	94.5	95.2	95.1	0.76	0.82	0.85
1150	850	1191	70	147	6.1	90%	200%	15	10801	77	94.7	95.4	95.4	0.76	0.83	0.85
1250	900	1191	70	159	5.8	90%	200%	15	10855	77	94.8	95.5	95.5	0.76	0.83	0.85
1300	950	1193	70	164	6.4	70%	220%	16	11687	77	95.1	95.8	95.7	0.77	0.84	0.86
1350	1000	1193	70	170	6.0	70%	220%	16	11745	77	95.2	95.9	95.8	0.77	0.84	0.86
1400	1060	1785	70	170	6.1	80%	220%	13	10339	77	94.8	95.4	95.3	0.83	0.88	0.89
		1191	80	179	5.8	80%	200%	12	12208	79	94.9	95.4	95.4	0.75	0.82	0.85
1500	1120	1785	70	180	5.8	80%	220%	13	10390	77	94.9	95.5	95.4	0.83	0.88	0.89
		1191	80	191	5.8	80%	200%	12	12269	79	95.0	95.5	95.5	0.75	0.82	0.85
1575	1180	1784	70	192	5.7	80%	200%	12	10807	77	95.2	95.5	95.3	0.86	0.89	0.89
		1191	80	201	5.5	80%	200%	12	12330	79	95.1	95.6	95.6	0.75	0.82	0.85
1625	1250	3573	70	199	5.9	60%	210%	11	10000	80	95.0	95.4	95.3	0.87	0.90	0.90
		1784	70	201	5.7	80%	200%	12	10861	77	95.3	95.6	95.4	0.86	0.89	0.89
		1192	80	207	6.1	80%	210%	13	13373	79	95.2	95.8	95.8	0.76	0.83	0.86
1750	1320	3576	70	211	6.4	60%	210%	14	10324	80	95.3	95.7	95.6	0.87	0.90	0.90
		1784	70	212	5.4	80%	200%	12	10915	77	95.4	95.7	95.5	0.86	0.89	0.89
		1192	80	220	5.8	80%	210%	13	13440	79	95.3	95.9	95.9	0.76	0.83	0.86
1900	1400	3576	70	228	6.0	60%	210%	14	10375	80	95.4	95.8	95.7	0.87	0.90	0.90
		1785	70	224	5.9	80%	200%	11	11110	77	95.5	95.7	95.6	0.85	0.89	0.90
		1192	80	239	5.9	70%	200%	13	14125	79	95.4	96.0	95.9	0.78	0.84	0.86
2000	1500	3577	70	241	6.6	60%	220%	12	10552	83	95.2	95.7	95.6	0.86	0.90	0.90
		1785	70	240	5.6	80%	200%	11	11165	77	95.6	95.8	95.7	0.85	0.89	0.90
		1192	80	251	5.6	70%	200%	13	14195	79	95.5	96.1	96.0	0.78	0.84	0.86
2125	1600	3577	70	255	6.2	60%	220%	12	10605	83	95.3	95.8	95.7	0.86	0.90	0.90
		1785	70	256	6.0	80%	210%	10	11478	77	95.7	96.0	95.8	0.85	0.89	0.89
		1192	80	267	5.8	60%	210%	14	14463	79	95.5	96.0	95.9	0.77	0.84	0.86
2250	1700	3576	70	267	6.3	50%	220%	12	11154	83	95.6	95.9	95.8	0.87	0.91	0.91
		1785	70	271	5.7	80%	210%	10	11535	77	95.8	96.1	95.9	0.85	0.89	0.89
		1192	80	282	5.5	60%	210%	14	14535	79	95.6	96.1	96.0	0.77	0.84	0.86
2375	1800	3576	70	282	5.9	50%	220%	12	11210	83	95.7	96.0	95.9	0.87	0.91	0.91
		1790	80	293	6.3	80%	240%	10	12570	79	95.5	96.1	96.1	0.75	0.83	0.86
		1191	88	295	5.4	70%	200%	11	15990	82	95.8	96.1	95.9	0.80	0.86	0.87
2500	1900	3578	80	303	5.8	50%	200%	15	12025	83	95.3	95.7	95.9	0.85	0.89	0.89
		1789	80	303	6.1	70%	220%	11	13184	79	95.8	96.1	96.3	0.82	0.87	0.89
		1191	88	309	5.5	60%	190%	11	16468	82	95.9	96.1	96.3	0.78	0.85	0.87
2750	2000	3578	80	327	5.5	50%	200%	15	12085	83	95.4	95.8	96.0	0.85	0.89	0.89
		1789	80	319	5.8	70%	220%	11	13250	79	95.9	96.2	96.4	0.82	0.87	0.89
		1191	88	333	5.2	60%	190%	11	16550	82	96.0	96.2	96.4	0.78	0.85	0.87
2875	2120	3579	80	344	6.1	50%	200%	14	12741	83	95.6	95.9	96.1	0.87	0.90	0.90
		1790	80	341	6.8	80%	240%	9	13463	79	95.9	96.2	96.5	0.78	0.85	0.87
		1193	88	359	5.4	50%	190%	17	17751	82	96.0	96.3	96.5	0.78	0.84	0.86
3000	2250	3579	80	359	5.8	50%	200%	14	12805	83	95.7	96.0	96.2	0.87	0.90	0.90
		1790	80	362	6.4	80%	240%	9	13530	79	96.0	96.3	96.6	0.78	0.85	0.87
		1193	88	374	5.1	50%	190%	17	17840	82	96.1	96.4	96.6	0.78	0.84	0.86
3175	2360	3580	80	376	6.4	50%	220%	13	13154	85	95.6	95.9	96.1	0.88	0.90	0.91
		1790	80	379	6.7	80%	240%	9	13896	79	96.1	96.3	96.6	0.79	0.86	0.88
3350	2500	3580	80	396	6.0	50%	220%	13	13220	85	95.7	96.0	96.2	0.88	0.90	0.91
		1790	80	402	6.3	80%	240%	9	13965	79	96.2	96.4	96.7	0.79	0.86	0.88
3500	2650	3580	80	418	6.9	60%	220%	10	13463	85	95.7	96.0	96.3	0.85	0.89	0.90
		1788	88	426	5.6	70%	210%	9	15845	82	96.3	96.5	96.6	0.79	0.85	0.87
3700	2800	3580	80	442	6.5	60%	220%	10	13530	85	95.8	96.1	96.4	0.85	0.89	0.90
		1789	88	460	6.1	70%	220%	8	16672	82	96.4	96.5	96.7	0.78	0.85	0.87
4000	3000	3580	88	473	5.9	50%	210%	13	15635	83	95.8	96.1	96.3	0.87	0.90	0.91
		1789	88	481	5.8	70%	220%	8	16755	82	96.5	96.6	96.8	0.78	0.85	0.87
4250	3150	3580	88	503	6.1	50%	210%	14	16090	85	95.5	95.9	96.2	0.87	0.90	0.91
		1790	88	505	6.0	70%	220%	9	17590	82	96.5	96.7	96.9	0.80	0.86	0.88
4500	3350	3580	88	532	5.8	50%	210%	14	16170	85	95.6	96.0	96.3	0.87	0.90	0.91

For technical information related to larger ratings please contact us

W60 Medium Voltage Motors

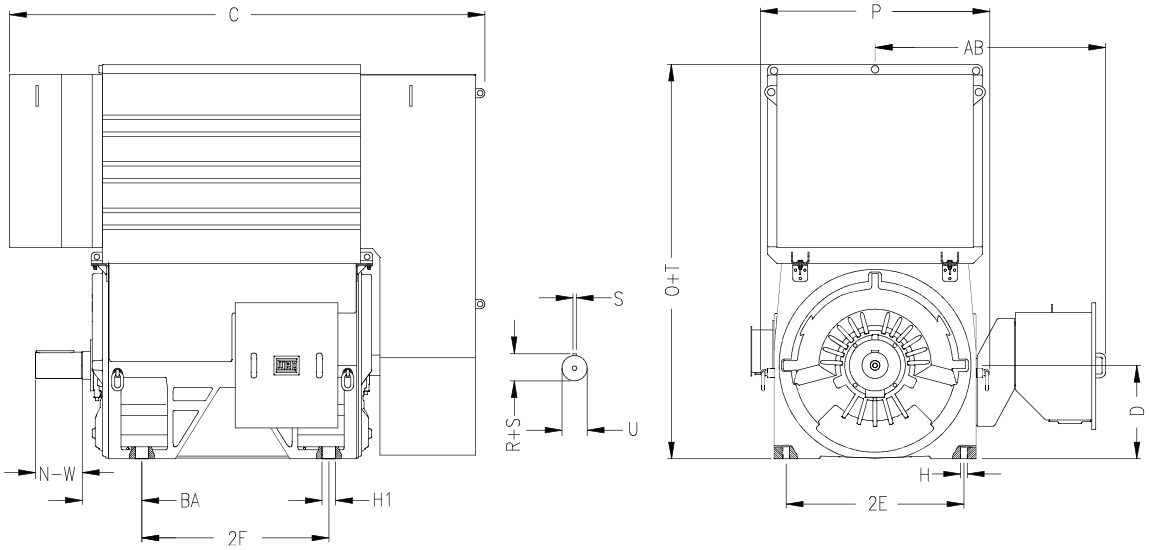
WP-II 60Hz 4160V - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Efficiency (%)			Power factor		
HP	kW			4160V							50%	75%	100%	50%	75%	100%
1300	950	1192	70	167	6.1	70%	210%	18	10269	83	95.5	96.0	95.9	0.74	0.82	0.84
1350	1000	1192	70	173	5.8	70%	210%	18	10320	83	95.6	96.1	96.0	0.74	0.82	0.84
1400	1060	1192	70	178	6.1	80%	210%	16	10518	83	95.7	96.0	95.9	0.76	0.82	0.85
1500	1120	1192	70	190	5.8	80%	210%	16	10570	83	95.8	96.1	96.0	0.76	0.82	0.85
1575	1180	1191	70	202	6.1	80%	210%	14	10552	83	95.8	96.1	95.9	0.74	0.82	0.84
1625	1250	1191	70	212	5.8	80%	210%	14	10605	83	95.9	96.2	96.0	0.74	0.82	0.84
1750	1320	1191	70	222	5.7	80%	210%	15	10855	83	95.8	96.2	96.0	0.75	0.82	0.85
1900	1400	1784	70	228	5.5	80%	190%	10	9498	83	95.5	96.0	95.7	0.85	0.89	0.90
		1191	80	238	5.5	60%	190%	14	12338	84	95.9	96.1	96.0	0.78	0.84	0.86
2000	1500	1784	70	240	5.2	80%	190%	10	9545	83	95.6	96.1	95.8	0.85	0.89	0.90
		1191	80	251	5.2	60%	190%	14	12400	84	96.0	96.2	96.1	0.78	0.84	0.86
2125	1600	3574	70	253	6.0	60%	200%	9	9100	83	95.3	95.7	95.5	0.88	0.90	0.91
		1786	70	258	6.3	90%	220%	8	10060	83	95.8	96.2	96.0	0.83	0.88	0.89
		1191	80	267	5.5	60%	190%	12	12634	84	95.8	96.1	96.0	0.77	0.84	0.86
2250	1700	3574	70	268	5.7	60%	200%	9	9145	83	95.4	95.8	95.6	0.88	0.90	0.91
		1786	70	272	5.9	90%	220%	8	10110	83	95.9	96.3	96.1	0.83	0.88	0.89
		1191	80	282	5.5	60%	190%	12	12697	84	95.9	96.2	96.1	0.77	0.84	0.86
2375	1800	3575	70	282	6.5	60%	200%	9	9687	83	95.6	96.0	95.8	0.87	0.91	0.91
		1786	70	288	6.3	90%	220%	8	10279	83	95.8	96.2	96.0	0.84	0.88	0.89
		1191	80	297	5.2	60%	190%	12	12760	84	96.0	96.3	96.2	0.77	0.84	0.86
2500	1900	3575	70	297	6.1	60%	200%	9	9735	83	95.7	96.1	95.9	0.87	0.91	0.91
		1786	70	303	5.9	90%	220%	8	10330	83	95.9	96.3	96.1	0.84	0.88	0.89
		1191	80	316	5.5	60%	190%	11	13025	84	96.1	96.3	96.4	0.74	0.82	0.85
2750	2000	3574	70	323	6.5	60%	210%	9	9990	83	95.9	96.1	96.1	0.88	0.90	0.90
		1784	70	323	5.6	80%	200%	8	10632	83	96.1	96.3	96.3	0.86	0.89	0.90
		1191	80	341	5.5	60%	190%	11	13090	84	96.2	96.4	96.5	0.74	0.82	0.85
2875	2120	3574	70	344	6.1	60%	210%	9	10040	83	96.0	96.2	96.2	0.88	0.90	0.90
		1784	70	343	5.3	80%	200%	8	10685	83	96.2	96.4	96.4	0.86	0.89	0.90
		1191	80	363	5.2	60%	190%	11	13155	84	96.3	96.5	96.6	0.74	0.82	0.85
3000	2250	3574	70	354	6.3	50%	210%	12	10294	83	96.1	96.3	96.3	0.87	0.91	0.91
		1788	80	365	5.4	70%	200%	9	11490	84	96.4	96.6	96.6	0.80	0.86	0.88
		1192	80	383	5.5	60%	200%	10	13498	84	96.2	96.4	96.5	0.73	0.81	0.84
3175	2360	3574	70	375	5.9	50%	210%	12	10345	83	96.2	96.4	96.4	0.87	0.91	0.91
		1788	80	382	6.0	70%	210%	9	12120	84	96.4	96.6	96.6	0.82	0.88	0.89
		1192	80	405	5.2	60%	200%	10	13565	84	96.3	96.5	96.6	0.73	0.81	0.84
3350	2500	3577	80	400	5.7	60%	200%	10	11415	84	96.1	96.3	96.3	0.86	0.90	0.90
		1788	80	403	5.7	70%	210%	9	12180	84	96.5	96.7	96.7	0.82	0.88	0.89
		1193	88	427	5.4	60%	200%	13	16245	85	96.4	96.6	96.8	0.72	0.81	0.84
3500	2650	3579	80	413	6.6	60%	220%	9	12040	84	96.3	96.3	96.4	0.87	0.90	0.91
		1788	80	422	5.7	70%	200%	8	12438	84	96.4	96.7	96.6	0.83	0.88	0.89
		1193	88	441	5.3	50%	190%	13	16572	85	96.5	96.6	96.7	0.75	0.82	0.85
3700	2800	3579	80	436	6.2	60%	220%	9	12100	84	96.4	96.4	96.5	0.87	0.90	0.91
		1788	80	445	5.4	70%	200%	8	12500	84	96.5	96.8	96.7	0.83	0.88	0.89
		1193	88	466	5.0	50%	190%	13	16655	85	96.6	96.7	96.8	0.75	0.82	0.85
4000	3000	3578	80	478	6.3	60%	200%	10	12363	84	96.1	96.3	96.3	0.88	0.90	0.90
		1789	80	492	6.5	80%	230%	7	12856	84	96.7	96.7	96.8	0.78	0.85	0.87
		1193	88	509	5.2	50%	200%	12	16815	85	96.6	96.7	96.8	0.72	0.80	0.84
4250	3150	3578	80	507	5.9	60%	200%	10	12425	84	96.2	96.4	96.4	0.88	0.90	0.90
		1789	80	522	6.1	80%	230%	7	12920	84	96.8	96.8	96.9	0.78	0.85	0.87
4500	3350	3578	80	530	5.9	50%	200%	12	12856	84	96.4	96.5	96.6	0.87	0.91	0.91
		1789	88	552	5.7	70%	220%	7	14995	85	96.8	96.9	97.0	0.77	0.84	0.87
4750	3550	3578	80	559	5.6	50%	200%	12	12920	84	96.5	96.6	96.7	0.87	0.91	0.91
		1790	88	582	5.5	60%	210%	7	15515	85	96.9	97.0	97.1	0.77	0.84	0.87
5000	3750	3578	88	590	5.8	60%	210%	9	14715	85	96.4	96.5	96.5	0.87	0.90	0.91
		1791	88	612	6.1	70%	230%	7	15975	85	97.1	97.1	97.2	0.76	0.84	0.87
5300	4000	3580	88	632	5.8	60%	210%	10	15015	85	96.3	96.4	96.5	0.84	0.89	0.90
5700	4250	3580	88	671	5.6	50%	210%	11	15395	85	96.5	96.7	96.7	0.88	0.91	0.91

For technical information related to larger ratings please contact us

W60 Medium Voltage Motors

TEAAC - Mechanical Data

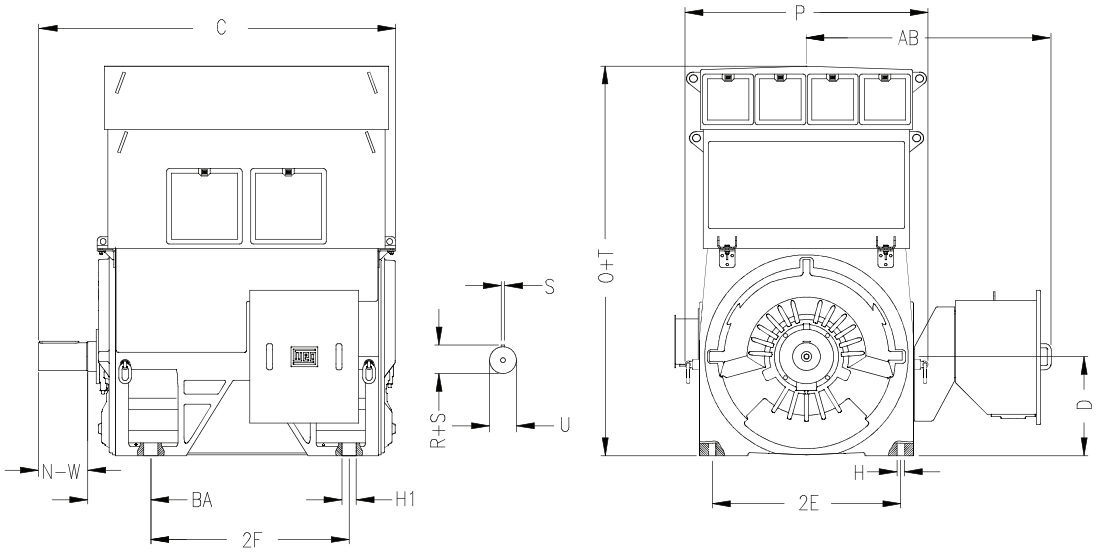


Frame	Poles	Mounting					Frame					Shaft Extension - Drive End			
		2E	2F	BA	H	H1	D	O+T	C	P	AB	U	N-W	S	R+S
70	2	34.000	36.000	11.500	1.380	2.830	17.500	77.200	97.200	44.300	52.600	4.000	8.500	1.000	4.440
	4 and 6									44.300		4.375			4.820
80	2	38.000	40.000		1.650		20.000	83.600	100.600	48.300	54.500	4.000			4.440
	4 and 6											5.500	9.500	1.250	6.050
88	2	42.000					22.000	88.700	108.000	52.600	56.700	4.375	8.500	1.000	4.820
	4 and 6											5.500	9.500	1.250	6.050

For technical information related to larger ratings please contact us

W60 Medium Voltage Motors

WP-II - Mechanical Data



Frame	Poles	Mounting					Frame					Shaft Extension - Drive End			
		2E	2F	BA	H	H1	D	O+T	C	P	AB	U	N-W	S	R+S
70	2	34.000	36.000	11.500	1.380	2.830	17.500	73.200	68.500	44.300	52.600	4.000	8.500	1.000	4.440
	4 and 6											4.375			4.820
80	2	38.000	40.000		1.650		20.000	77.700	69.600		54.500	4.000			4.440
	4 and 6								70.600			5.500	9.500	1.250	6.050
88	2	42.000					22.000	81.800	70.800	52.600	56.700	4.375	8.500	1.000	4.820
	4 and 6								71.800			5.500	9.500	1.250	6.050

For technical information related to larger ratings please contact us

Modification - Washdown Duty Motors

Washdown Duty - TEFC

- External Paint: Burkes Industrial Coatings - Supercoat 316L
- Epoxy paint Epoxylite 7001
- Permatex (Loctite Gasket Sealant # 3) sealant on all relevant joints
- Loctite (Blue) 587 on the bearing cap bolt threads and under the bolt head
- Enlarged WEG shaft seal for non flanged motors
- WEG lead separator

The VJP Washdown is intended to increase the WEG motor's protection in a washdown/ hosedown environment, where the motor(s) will be hosed down and cleaned after a normal shift. This enhanced product is designed for a normal daily shift operation and not for an intermittent duty and/or long periods of the motor being idle. In this case Space Heaters will be required

Frame	140	180	210	250	280	320	360	400	440	L449	500	580
P/N	M140	M180	M210	M250	M280	M320	M360	M400	M440		M500	M580
List Price	$286	$286	$338	$377	$416	$475	$533	$533	$637	POA	POA	POA

Washdown Duty - Explosion Proof Motors

- External Paint: Burkes Industrial Coatings - Supercoat 316L
- Epoxy paint Epoxylite 7001
- Lumomoly sealant on all relevant joints
- Recertification
- Enlarged WEG shaft seal for non flanged motors above 56 Frame
- Sealed bearings 2RS type frame size 56 to 215T (if not standard, as required)
- Frame 254T and up are re greaseable

The VJP Washdown is intended to increase the WEG motor's protection in a washdown/ hosedown environment, where the motor(s) will be hosed down and cleaned after a normal shift. This enhanced product is designed for a normal daily shift operation and not for an intermittent duty and/or long periods of the motor being idle. In this case Space Heaters will be required

Frame	140	180	210	250	280	320	360	400	440	L449	500	580
P/N	M140	M180	M210	M250	M280	M320	M360	M400	M440		M500	M580
List Price	$390	$390	$442	$481	$520	$579	$637	$637	*	*	*	*

Local Modifications

Modification	List Price by Frame												
	56	140	180	210	250	280	320	360	400	440	L449	500	580
Auxiliary Terminal Box	*	$195	$195	$195	$195	$195	$195	$260	$260	$260	$260	$260	$260
Bearing Change - Ball to Roller	*	*	*	*	$655	$728	$772	$874	$874	$1,092	$1,690	$1,092	$1,893
Bearing Change - Roller to Ball	*	*	*	*	*	*	*	$728	$728	$874	$1,310	$1,310	$1,310
Blower - Three Phase motor Forced Ventilation	*	POA	$1,532	$1,687	$1,856	$1,927	$2,081	$2,327	$2,443	$2,746	POA	POA	POA
Blower - Three Phase with encoder provision	*	POA	$1,827	$2,080	$2,288	$2,385	$2,575.80	$3,074	$3,227.70	$3,635	POA	POA	POA
Blower - Three Phase with encoder	*	POA	$2,772	$3,025	$3,237	$3,330	$3,596	$4,051	$4,254	$4,612	POA	POA	POA
Corrosion protected stator (internal) + rotor with epoxy.	$250	$250	$250	$250	$312	$312	$312	POA	*	*	*	*	*
Cooling Tower Motor: CT-VSU (Vertical Shaft Up)	*	$386	$386	$438	$477	$516	$575	POA	POA	POA	POA	POA	POA
Cooling Tower Motor: CT-VSD (Vertical Shaft Down)	*	$475	$501	$546	$598	$676	$774	POA	POA	POA	POA	POA	POA
Cooling Tower Motor: CT-H (Horizontal)	*	$336	$336	$388	$427	$466	$525	POA	POA	POA	POA	POA	PPOA
Drill + Tap shaft end.	$107	$119	$119	$128	$216	$261	$345	*	*	*	*	*	*
Drip Cover	$72	$98	$111	$137	$169	$176	$195	$273	$299	$442	$442	$442	POA
Double Shaft - TEFC / ODP	$383	$472	$524	$727	$969	$1,108	$1,592	$1,938	$2,836	$3,840	$3,840	POA	POA
Double Shaft - XP	$578	$662	$674	$877	$1,119	$1,258	$1,742	$2,081	$2,979	$3,983	$3,983	POA	POA
Encoder (Dynapar - HS35R10248477)	*	POA	$1,230	$1,318	$1,352	$1,375	$1,422	$1,612	$1,673	$1,736	$1,736	$1,820	POA
F2 Mount -TEFC 3 Phase	*	$91	$91	$91	$104	$117	$124	$156	$182	$208	$104	$104	$104
F2 Mount - XP 3 Phase	*	$221	$221	$221	$234	$247	$254	$286	$312	$338	*	*	*
F3 Mount -TEFC 3 Phase	*	*	*	*	POA	POA	POA	POA	POA	POA	$104	$104	$104
HP/HPH Shaft	*	$410	$455	$624	$819	$935	$1,398	$1,690	$2,990	*	*	*	*
JM Shaft	*	$374	$374	$520	$689	$858	$1,287	$1,619	*	*	*	*	*
JM Shaft - XP	*	*	$530	$676	$845	*	$1,443	$1,619	POA	*	*	*	*
JP Shaft	*	$374	$520	$689	$858	$1,287	$1,593	POA	*	*	*	*	*
New Standard DE shaft - TEFC (Front End)	$267	$325	$355	$443	$576	$798	$1,019	$1,330	$1,775	POA	POA	POA	POA

Local Modifications

Modification	List Price by Frame												
	56	140	180	210	250	280	320	360	400	440	L449	500	580
New Standard DE Shaft - XP (Front End)	$462	$468	$506	$571	$831	$932	$1,359	POA	POA	POA	POA	POA	POA
Relocation of Drain Holes	$52	$52	$52	$52	$52	$52	$52	$104	$104	$104	$104	$104	$325
Re Rate and/or new nameplate	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26
Round Body TEFC / ODP	$104	$104	$104	$104	$156	$156	$156	$208	POA	POA	POA	POA	POA
RTD's - 1 / Bearing	*	*	*	*	*	*	*	$845	$845	$845	$845	$845	$845
RTD's - 1 / Phase (3)	*	*	*	*	*	$780	$780	$780	$780	$780	$780	$780	$780
*** Shaft Grounding Ring - Aegis (Externally mounted)	$169	$195	$201	$228	$241	$273	$299	$338	$429	$637	$637	$689	$689
*** Shaft Grounding Ring - Aegis (Internally mounted)	$269	$295	$301	$328	$341	$373	$399	$438	$529	$737	$737	$789	$789
Shaft Grounding Brush	*	$169	$169	$169	$234	$234	$234	$273	$273	$273	$273	$273	$273
Short Shaft (Standard)	*	$195	$226	$325	$481	$549	$619	$723	$767	$845	$845	$1,235	POA
Space Heaters - 120V / 230V - W22 TEFC	*	$260	$273	$293	$325	$345	$364	$429	$429	$494	$494	$572	*
** Space Heaters - 120V / 230V - W21X	*	$455	$468	$487.50	$520	$539.50	$559	$624	$624	$689	$689	$767	POA
Special Colour	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
Stub Shaft - Encoder (5/8") - Extending from the fan cover	*	POA	$286	$370.50	$416	$442	$494	$676	$741	$793	$793	POA	POA
Thermistor - 1 / Phase.	*	$156	$156	$156	$208	$208	$208	$260	$260	$260	$260	$260	POA
Thermostats - 1 / Phase	*	POA	POA	POA	$286	$319	$358	$358	$358	$358	$358	$390	$455
Terminal Block - Main T-Box	*	$124	$124	$124	$163	$163	$195	$247	$247	$325	$325	$325	POA
Washdown - W22	*	$286	$286	$338	$377	$416	$475	$533	$533	$637	POA	POA	POA
Washdown - W01	$286	$286	$286	$338	$377	*	*	*	*	*	*	*	*
Washdown - XP	*	$390	$390	$442	$481	$520	$579	$637	$637	*	*	*	*

Loose Parts

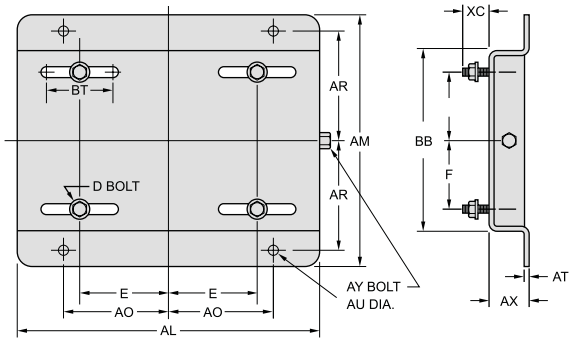
				List Price by NEMA Frame / Equivalent IEC Frame													
NEMA Frame				56	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/5/7	449	504/5	586/7	588/9
IEC Frame	63	71	80	-	90	100/112	132	160	180	200	225	250	280	-	315	355	
'C' Flange - ODP	•	•	•	$59	$96	$119	$159	$228	$508	$680	$1071	$1351	$1502	•	•	•	•
'D' Fange - ODP	•	•	•	•	•	•	•	•	$647	$790	$1058	$1221	$1208	POA	•	•	•
'C' Flange - W22 TEFC	•	•	•	•	$109	$146	$148	$228	$336	$436	$874	$874	$1366	$1656	$1948	$3528	$3528
'D' Flange - W22 TEFC	•	•	•	•	$295	$277	$277	$518	$518	$798	$1100	$1100	$1345 - 444/5 $1865 - 447	$2009	$1971	$3792	$3792
'C' Flange W22- IEEE 841-2009	•	•	•	•	$459	$517	$568	$613	$689	$791	$1023	$1023	$1573	POA	POA	POA	POA
D' Flange W22- IEEE 841-2009	•	•	•	•	$498	$464	$418	$785	$653	$1178	$1331	$1222	$1868	POA	POA	POA	POA
'C' Flange - Explosion Proof	•	•	•	$191	$234	$328	$488	$640	$702	$965	$1607	$1607	$2481	POA	POA	$3778	•
'D' Flange - Explosion Proof	•	•	•	•	$527	$527	$585	$800	$826	$1528	$2014	$2014	$2984	$2984	POA	POA	•
'B14' Flange (C) - Metric	$74	$89	$103	•	$118	$130 - 100 $156 - 112	$187	$307	$404	$512	$952	$1144	$1144	•	•	•	•
'B5" Flange (D) - Metric	$103	$103	$126	•	$140	$170	$210	$434	$459	$616	$1217	$1338	$1529	•	$1633	$1969	•
P Base Flange W21/ W22	•	•	•	•	$374	$440	$484	$654	$596	$1037	$1842	$1842	POA	•	•	•	•
Endshields - Drive End W01 ODP	•	•	•	$52	$52	$71	$112	$168	•	•	•	•	•	•	•	•	•
Endshields - Drive End W01 TEFC	•	•	•	$48	$68	$89	$104	$152	•	•	•	•	•	•	•	•	•
Endshields - Non-Drive End W01 ODP	•	•	•	$40	$52	$139	$185	$199	•	•	•	•	•	•	•	•	•
Endshields - Non-Drive End W01 TEFC	•	•	•	$40	$79	$124	$159	$178	•	•	•	•	•	•	•	•	•
Endshields - Drive End W40 ODP	•	•	•	•	•	•	•	•	$214	$352	$474	$474	$589	$773	•	•	•
Endshields - Drive End W22 TEFC	•	•	•	•	$50	$75	$124	$177	$206	$309	$413	$488	$647	$647	$897	•	•
Endshields - Non-Drive End W40 ODP	•	•	•	•	•	•	•	•	$214	$316	$411	POA	$719	$773	•	•	•
Endshields - Non-Drive End W22 TEFC	•	•	•	•	$95	$124	$191	$225	$250	$405	$503	$521	$2133	POA	$2690	$3295	•
Endshields Non Drive End EXP W21	•	•	•	•	$115	$173	$263	$358	$555	$568	$696	POA	$1131	POA	POA	POA	POA
Fan - Plastic	$34	$34	$34	$34	$34	$38	$47	$96	$112	$244	$334	$334	$334	$334	$334	•	•
Fan - Metal	POA	$54	$72	•	$72	$121	$212	$212	$274	$344	$773	$773	$773	$773	$1322	$1322	$1322
Fan - Bronze	•	•	•	•	$145	$213	$334	$365	$376	$435	$1033	POA	$1248	$1248	$1248	POA	POA

Loose Parts

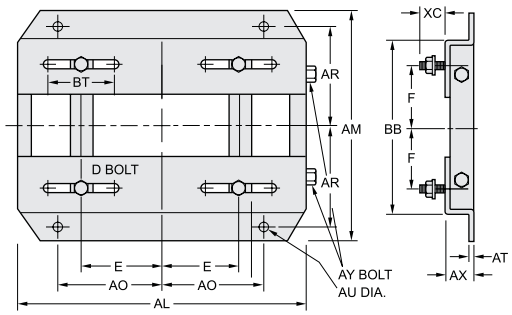
				List Price by NEMA Frame / Equivalent IEC Frame													
NEMA Frame				56	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/5/7	449	504/5	586/7	588/9
IEC Frame	63	71	80	-	90	100/112	132	160	180	200	225	250	280	-	315	355	
Fan Cover - W01	$50	$50	$50	$50	$50	$50	$98	$112	POA	POA	POA	POA	POA	POA	POA	POA	POA
Fan Cover - W22	•	•	•	•	$59	$72	$98	$166	$222	$287	$578	$578	$927	$927	$927	$2203	$2203
Fan Cover - Explosion Proof	•	•	•	•	$78	$109	$123	$278	$278	$281	$486	$486	$1159	$1159	$1159	$2754	$2754
Terminal Box - TEFC W22	•	•	•	•	$75	$101	$101	$152	$152	$225	$319	$319	$528	$1022	$1022	$1710	$1710
Terminal Box Part B Bracket (only W22)	•	•	•	•	•	•	•	•	•	•	$505	$505	$826	$826	$826	$974	$974
Terminal Box - ODP W01	•	•	•	$48	$50	$80	$84	$155	•	•	•	•	•	•	•	•	•
Terminal Box - ODP W40	•	•	•	•	•	•	•	$258	$272	$353	$441	$441	$589	$589	•	•	•
Terminal Box - Explosion Proof	•	•	•	•	$202	$244	$244	$324	$324	$454	$683	$683	$1103	$1954	$1954	$2646	•
Bearing Cap Kit W22	•	•	•	•	•	$35	$40	$41	$50	$51	POA	POA	POA	POA	POA	POA	POA
Bearing Cap Kit W01	•	•	•	•	$28	$30	$36	$44	•	•	•	•	•	•	•	•	•
Bearing Cap Kit W40	•	•	•	•	•	•	•	•	$112	$125	$132	$132	$165	POA	POA	POA	POA
Bearing Cap Kit - Explosion Proof	•	•	•	•	•	•	•	•	•	•	$646	$490	$1063	$904	$904	POA	POA
Centrifugal Switch	POA	POA	POA	$38	$38	$38	$38	•	•	•	•	•	•	•	•	•	•
Stationary Switch	POA	POA	POA	$38	$38	$55	$55	•	•	•	•	•	•	•	•	•	•
Drip Cover W01	$58	$58	$58	$58	$89	$111	$118	$133	$192	$222	$414	$414	$473	$739	$473	$739	$739
Drip Cover W40	•	•	•	•	•	•	•	$379	$401	$480	$531	POA	$593	POA	POA	POA	POA
Thermistor Relay	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158	$158
Saw Arbor Drive End	•	•	$93	•	$118	•	•	•	•	•	•	•	•	•	•	•	•
Saw Arbor Non Drive End	•	•	$105	•	$147	•	•	•	•	•	•	•	•	•	•	•	•
Saw Arbor Plates	•	•	$333	•	$333	•	•	•	•	•	•	•	•	•	•	•	•
Saw Arbor Fan Cover	•	•	$56	•	$68	•	•	•	•	•	•	•	•	•	•	•	•

Motor Bases

Adjustable Motor Bases - NEMA 56 - 587T Frames



NEMA 56 - 215T



NEMA 213T - 447T

NEMA Frame	List Price	Part Number	AL	AM	AX	BB	E	F	AO	AR	AU	BT	AT	XC	D Bolt	AY Bolt	Shipping Weight
143T	$88	SB143DAB	10.500	7.500	1.125	5.500	2.750	2.000	3.750	3.375	0.375	3.000	0.119	0.813	5/15 x 1	3/8 x 4	5
145T	$88	SB145DAB	10.500	8.500	1.125	6.500	2.750	2.500	3.750	3.875	0.375	3.000	0.199	0.813	5/15 x 1	3/8 x 4	6
182T	$140	SB182DAB	12.750	9.500	1.500	6.500	3.750	2.250	4.500	4.250	0.500	3.000	0.134	1.500	3/8 x 1 3/4	1/2 x 5	9
184T	$140	SB184DAB	12.750	10.500	1.500	7.500	3.750	2.750	4.500	4.750	0.500	3.000	0.134	1.500	3/8 x 1 3/4	1/2 x 5	9
213T	$157	SB213DAB	15.000	11.000	1.750	7.500	4.250	2.750	5.250	4.750	0.500	3.500	0.164	1.500	3/8 x 1 3/4	1/2 x 5	13
215T	$157	SB215DAB	15.000	12.500	1.750	9.000	4.250	3.500	5.250	5.500	0.500	3.500	0.164	1.500	3/8 x 1 3/4	1/2 x 5	15
254T	$209	SB254DAB	17.750	15.125	2.000	10.750	5.000	4.125	6.250	6.625	0.625	4.000	0.188	1.438	1/2 x 1 3/4	5/8 x 6	17
256T	$209	SB256DAB	17.750	16.875	2.000	12.500	5.000	5.000	6.250	7.500	0.625	4.000	0.188	1.438	1/2 x 1 3/4	5/8 x 6	18
284T	$229	SB284DAB	19.750	16.875	2.000	12.500	5.250	4.750	7.000	7.500	0.625	4.500	0.188	1.688	1/2 x 2	5/8 x 6	21
286T	$229	SB286DAB	19.750	18.375	2.000	14.000	5.250	5.500	7.000	8.250	0.625	4.500	0.188	1.688	1/2 x 2	5/8 x 6	22
324T	$298	SB324DAB	22.750	19.250	2.500	14.000	6.250	5.250	8.000	8.500	0.750	5.250	0.188	2.188	5/8 x 2 1/2	3/4 x 9	31
326T	$298	SB326DAB	22.750	20.750	2.500	15.500	6.250	6.000	8.000	9.250	0.750	5.250	0.188	2.188	5/8 x 2 1/2	3/4 x 9	32
364T	$367	SB364DAB	25.500	20.500	2.500	15.500	7.000	5.625	9.000	9.125	0.750	6.000	0.250	2.063	5/8 x 2 1/2	3/4 x 9	44
365T	$367	SB365DAB	25.500	21.500	2.500	16.500	7.000	6.125	9.000	9.625	0.750	6.000	0.250	2.063	5/8 x 2 1/2	3/4 x 9	45
404T	$579	SB404DAB	28.750	22.375	3.000	16.500	8.000	6.125	10.000	9.875	0.875	7.000	0.250	2.500	3/4 x 3	3/4 x 11	60
405T	$579	SB405DAB	28.750	23.875	3.000	18.000	8.000	6.875	10.000	10.625	0.875	7.000	0.250	2.500	3/4 x 3	3/4 x 11	61
444T	$754	SB444DAB	31.250	24.625	3.000	19.250	9.000	7.250	11.000	11.000	0.875	7.500	0.250	2.500	3/4 x 3	3/4 x 11	68
445T	$754	SB445DAB	31.250	26.625	3.000	21.250	9.000	8.250	11.000	12.000	0.875	7.500	0.250	2.500	3/4 x 3	3/4 x 11	73
447T	$848	SB447DAB	31.250	30.125	3.000	24.750	9.000	10.000	11.000	13.750	0.875	7.500	0.313	2.500	3/4 x 3	3/4 x 14	89
449T	$848	SB449DAB	31.250	35.125	3.000	29.750	9.000	12.500	11.000	16.250	0.875	7.500	0.313	2.500	3/4 x 3	3/4 x 14	95
504T	$1,286	SB504DAB	35.000	28.000	3.500	20.750	10.000	8.000	12.500	12.500	1.000	8.000	0.313	3.000	7/8 x 3 1/2	7/8 x 16	132
505T	$1,286	SB505DAB	35.000	30.000	3.500	22.750	10.000	9.000	12.500	13.500	1.000	8.000	0.313	3.000	7/8 x 3 1/2	7/8 x 16	135
586T	$1,471	SB586DAB	586/7T sizes available on request														
587T	$1,471	SB587DAB															

Transition Bases

NEMA Frame	converts to	U Number	List Price	Part Number	Shipping Weight	Height	Width	Length	Thread
143T/145T		182/184	$140	TR1814TT	2	1.000	2.250	7.500	5/16 - 18
182T/184T		213/215	$157	TR2118TT	3	0.750	1.750	9.500	3/8 - 16
213T/215T		254U/256U	$209	TR25U21T	5	1.000	2.438	12.750	3/8 - 16
254T/256T		284U/286U	$229	TR28U25T	8	0.750	2.750	14.250	1/2 - 13
284T/286T		324U/326U	$298	TR32U28T	10	1.000	3.250	15.750	1/2 - 13
324T/326T		364U/365U	$367	TR36U32T	13	1.000	3.688	16.500	5/8 - 11
364T/365T		404U/405U	$579	TR40U36T	22	1.000	4.250	18.625	5/8 - 11
404T/405T		444U/445U	$754	TR44U40T	24	1.000	4.250	21.625	3/4 - 10

W01 TEFC Construction Features

Frame			56	56H	143/5T	182/4T	213/5T	254/6T
Mechanical Features								
Nameplate Marking			CSA, cULus					
Mounting	Std, High, NEMA Premium Efficiency		F-1/B3R(D)					
Frame	Material		Steel plate					
Degree of Protection			IP55					
Grounding			Terminal box					Grounding lug
Cooling method			Totally enclosed fan cooled - TEFC					
Fan	Material		Plastic					
Fan cover	Material		Plastic			Steel plate		
Endshields	Material		Aluminium					
Flange	Material		FC-149 Aluminum / FC-95 Cast Iron		Aluminum	Cast Iron		
Drain plug			Automatic rubber drain plug					
Bearing	Shielded/clearance DE		ZZ / Normal					Z / C3
	Shielded/clearance N.D.E.		ZZ / Normal					Z / C3
	Loacating bearing		W/O Lock on DE and spring washer on N.D.E.					
	Drive end	2P	6203 up to 3/4HP 6204 - 1HP up to 3HP and FC-95	6203 up to 3/4HP 6204 - 1HP up to 3HP and FC-95	6205	6206	6208	6309
		4-6P						
	Non-drive end	2P	6202	6202	6203	6205	6206	6208
		4-6P						
Bearing seal	Drive end		V-ring					
	Non-drive end		W/O					
Joint seal			W/O					
Lubrification	Type of grease		Mobil Polyrex EM					
Grease fitting			W/O					With
Terminal block			W/O					
Terminal box	Material		Aluminium - Diagonal					
Additional Terminal box			W/O Additional Terminal Box					
Lead inlet	Main	Size	1 hole ø22,4 (for NPT 1/2")	1 hole ø22,4 (for NPT 1/2")	1 hole ø 28,4 (for NPT 3/4")	1 hole ø 28,4 (for NPT 3/4")	1 hole ø 35 (for NPT 1")	1 hole ø 44 (for NPT 1 1/4")
	Acessories		W/O					
	Plug		Stopping plug					
Shaft	Material		AISI 1040/45					
	Threaded hole		A3.15			A4		
	Shaft key		A key					
Vibration level (IEC)			Grade A					
Nameplate	Material		Mylar nameplate					
Painting	Painting plan		W/O		207N	207A		203A
	Color	Std Eff, High Eff	-		Munsell N1 - Flat			
		NEMA Premium	-		Munsell N1 - Flat			
Eye bolt			W/O			With - 2		
Electrical Features								
Design	Std Eff		A		-			
	High Efficiency		-		B			
	NEMA Premium Eff		-		B			
	NEMA Premium Eff - Single		up to 1/3HP Design N / 1/2HP and above Design L		L			-
Voltage	50Hz	Std Eff	220/380 w/ 6 term					
		Std Eff - Single	110/220V		-			
	60Hz	Std Eff, High Eff, NEMA Premium	208-230/460V w/ 9 term					208-230/460V w/ 12 term
		Std Eff - Single	115/208-230V			208-230/460V		-
Winding	Impregnation		Dip and Bake					
	Insulation class		F (DT 80K)					
	Leads		Color coded lead CSA/UL					
	Terminal Leads		Without terminal (Stripped wire)					
Service factor	50Hz	Std Eff - Three	1.00					
		Std Eff - Single	1.00					
	60Hz	Std Eff, High Eff, NEMA Premium	1.15 (208V - 1.0)					
		Std Eff - Monof	1.15 (208V - 1.0)					
Rotor			Aluminium die cast					
Thermal protection			W/O					
Space heaters			W/O					

W22 TEFC Construction Features

143T to 286T

Frame			143T	145T	182T	184T	213T	215T	254T	256T	284T	286T
Mechanical features												
Nameplate markings			UR, CSA									
Mounting			F-1									
Frame	Material		Cast Iron FC-200									
Degree of protection (IP rating)			IP55									
Grounding			Simple groundindg (one inside the terminal box and one on the frame)									
Cooling method (IC)			Totally enclosed fan-cooled (IC411)									
Fan	Material	2P	Polypropylene									
		4P	Polypropylene									
		6-12P	Polypropylene									
Fan cover	Material		Steel						Cast Iron FC-200			
Endshields	Material		Cast Iron FC-200									
Drain plug			Fitted with rubber drain plug						Fitted with rubber drain plug			
Bearings	Shielded/clearance (DE)		ZZ / Normal						Open / C3			
	Shielded/clearance (N.D.E.)		ZZ / Normal						Open / C3			
	Locating bearing configuration		Without bearing cap and with preload washer at N.D.E.						Locked DE bearing and preload washer at N.D.E.			
	Drive end	2P	6205	6205	6207	6207	6308	6308	6309	6309	6311	6311
		4 - 12P										
	Non-drive end	2P	6204	6204	6206	6206	6207	6207	6209	6209	6211	6211
		4 - 12P										
Bearing seal			V-ring									
Lubrication	Type of Grease		Mobil Polyrex EM									
	Grease fitting		None						With grease relief fitting			
Terminal block			None									
Terminal box	Material		Cast Iron FC-200									
Leads inlet	Main T-box	Size	NPT 3/4"	NPT 3/4"	NPT 1"	NPT 1"	NPT 1"	NPT 1"	NPT 1 1/2"	NPT 1 1/2"	NPT 1 1/2"	NPT 1 1/2"
	Plug		Flat plastic plug for transportation and storage									
Shaft	Material	2P	SAE 1040/45									
		4 - 12P										
	DE threaded hole	2P	-	-	-	-	-	-	-	-	-	-
		4 - 12P										
	N.D.E.(*) threaded hole	2P	-	-	-	-	-	-	-	-	M12 x 1.25	
		4 - 12P										
Balance			With 1/2 key									
Nameplate	Material		Stainless Steel AISI 304									
Painting	Type		207A						203A			
	Colour		Blue RAL 5009									
Electrical features												
Design			B									
Voltage			230/460 V									
Winding	Impregnation		Dip and Bake - Polyester									
	Insulation class		F (DT=80K)									
Service factor			1.25 (up to 100 HP) 1.15 (125 HP and above)									
Rotor			Aluminium die cast									
Space heater			None									

W22 TEFC Construction Features

324T to 588/9T

Frame			324T	326T	364/5T	404/5T	444/5T	445/7T	447/9T	L447/9T	504/5T	586/7T	588/9T
Mechanical features													
Nameplate markings			UR, CSA										
Mounting			F-1										
Frame	Material		Cast Iron FC-200										
Degree of protection (IP rating)			IP55										
Grounding			Simple groundindg (one inside the terminal box and one on the frame)		Simple groundindg (one inside the terminal box and one on the frame)			Simple groundindg (one inside the terminal box and one on the frame)					
Cooling method (IC)			Totally enclosed fan-cooled (IC411)										
Fan	Material	2P	Polypropylene						Polypropylene		Polypropy-lene	Polypropylene	Aluminum
		4P							Aluminum			Aluminum	
		6-12P	Polypropylene						Aluminium				
Fan cover	Material		Cast Iron FC-200										
Endshields	Material		Cast Iron FC-200										
Drain plug			Fitted with rubber drain plug										
Bearings	Shielded/clearance (DE)		Open / C3										
	Shielded/clearance (N.D.E.)		Open / C3										
	Locating bearing configuration		Locked DE bearing and preload washer at N.D.E.		Locked on DE with internal and external bearing caps and with preload springs at N.D.E.								
	Drive end	2P	6312	6312	6314	6314	6314	6314	6314	6314	6314	6314	6314
		4 - 12P				6316	6319	6319	6322	6322	6319	6322	6322
	Non-drive end	2P	6212	6212		6314	6314	6314	6314	6314	6314	6314	6314
		4 - 12P					6316	6316	6319	6319	6316	6319	6319
Bearing seal			V-ring		WSeal®							Taconite Labyrinth	
Lubrication	Type of Grease		Mobil Polyrex EM										
	Grease fitting		With grease relief fitting										
Terminal block			None										
Terminal box	Material		Cast Iron FC-200										
Leads inlet	Main T-box	Size	NPT 2"	NPT 2"	NPT 3"	NPT 3"	2 x NPT 3"	2 x NPT 3"	2 x NPT 3"	2 x NPT 3" (removable gland plate)	2 x NPT 3" (removable gland plate)	2 x NPT 3" (removable gland plate)	2 x NPT 3" (removable gland plate)
	Plug		Flat plastic plug for transportation and storage										
Shaft	Material	2P	SAE 1040/45			SAE 1040/45			SAE 4140		SAE 1040/45	SAE 4140	
		4 - 12P				SAE 4140							
	DE threaded hole	2P	-	-	UNC 3/4"	UNC 3/4"	UNC 3/4"	UNC 3/4"	UNC 3/4"	UNC 3/4"	UNC 3/4"	UNC 3/4"	UNC 3/4"
		4 - 12P										UNC 7/8"	UNC 7/8"
	N.D.E.(*) threaded hole	2P	M12 x 1.25		M20 x 2.5		M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5
		4 - 12P											
Balance			With 1/2 key										
Nameplate	Material		Stainless Steel AISI 304										
Painting	Type		203A										
	Colour		Blue RAL 5009										
Electrical features													
Design			B										
Voltage			230/460 V										460 V with 6 leads
Winding	Impregnation		Dip and bake - Polyester		Continuous resin flow - Polyester								
	Insulation class		F (DT=80K)										
Service factor			1.25 (up to 100 HP) 1.15 (125 HP and above)										1.00
Rotor			Aluminium die cast										
Space heater			None									200-240 Vac	

W01 ODP Construction Features

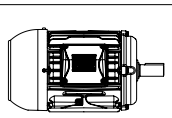
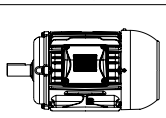
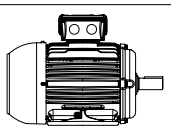
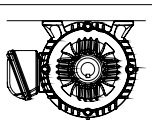
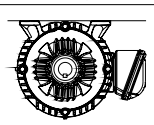
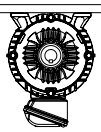
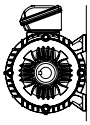
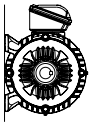
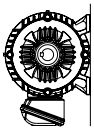
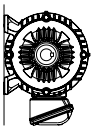
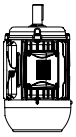
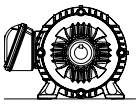
Frame			56	56H	143/5T	182/4T	213/5T	254/6T
Mechanical Features								
Nameplate Marking			CSA, cULus					
Mounting	Std, High, NEMA Premium Efficiency		F-1/B3R(D)					
Frame	Material		Rolled Steel					
Degree of Protection			IP21					
Grounding			Terminal box					Grounding lug
Cooling method			ODP					
Fan	Material		W/O					
Fan cover			W/O					
Internal air baffle			Plastic (Nylon)					
Endshields	Material		Aluminum					
Flange	Material		FC-149 Aluminum / FC-95 Cast Iron		Aluminum	Cast Iron		
Drain plug			W/O					
Bearing	Shielded/clearance DE		ZZ / Normal					Z / C3
	Shielded/clearance N.D.E.		ZZ / Normal					Z / C3
	Locating bearing		W/O Lock on DE and spring washer on N.D.E.					
	Drive end	2P	6203 up to 3/4HP 6204 - 1HP to 3HP and FC-95	6203 up to 3/4HP 6204 - 1HP to 3HP and FC-95	6205	6206	6208	6309
		4-6P						
	Non-drive end	2P	6202	6202	6203 – 3ph 6202 – 1ph	6205	6206	6208
		4-6P						
Bearing seal	Drive end		W/O					
	Non-drive end		W/O					
Joint seal			W/O					
Lubrification	Type of grease		Mobil Polyrex EM					
	Grease fitting		W/O					With
Terminal block			W/O					
Terminal box	Material		W/O		Aluminum - Diagonal			
Additional Terminal box			W/O Additional Terminal Box					
Lead inlet	Main	Size	NPT 1/2"	NPT 1/2"	1 hole ø 28,4 (for NPT 3/4")	1 hole ø 28,4 (for NPT 3/4")	1 hole ø 35 (for NPT 1")	1 hole ø 44 (for NPT 1 1/4")
	Acessories		W/O					
	Plug		Stopping plug					
Shaft	Material		SAE 1040/45					
	Center hole		A3.15			A4		
	Shaft key		A key					
Balancing without/half/full key			A Grade					
Nameplate	Material		Mylar nameplate					
Painting	Painting plan		W/O		207N	207A		203A
	Color	Std Eff, High Eff	-		Munsell N1 - Flat			
		NEMA Premium	-		Munsell N1 - Flat			
Eye bolt			W/O			With - 2		
Electrical Features								
Design	Nenhum e Premium Efficiency		A		-			
	High Efficiency		-		B			
	NEMA Premium		-		B			
	Oil Well Pumping		-			D		
	Standard e Premium Efficiency - Single		up to 1/3HP Design N / 1/2HP and above Design L		L			-
Standard voltage	50 Hz	Std Eff	220/380 w/ 6 term					
		Std Eff - Single	110/220V		-			
	60 Hz	Std, High Eff, Premium Eff and NEMA Premium	230/460V w/ 9 term					230/460V w/ 12 term
		Std, Premium Eff - Single	115/208-230V			230/460V		-
Winding	Impregnation		Dip and Bake					
	Insulation class		F (DT 80K)					
	Leads		Color coded lead CSA/UL					
	Terminal Leads		Without terminal (Stripped wire)					
Service factor	Std and Premium Efficiency		According to “SF ODP” spreadsheet		-			
	High Eff and NEMA Premium Eff		-		1.15 (208V - 1.0)			
	Oil Well Pumping		-			1,00		
	Std e Premium Eff - Single		According to “SF ODP” spreadsheet					-
Rotor			Aluminium die cast					
Thermal protection			W/O					
Space heaters			W/O					

W50 Construction Features

Frame			5009/10	5809/10	6806/07	6808/09	7006/07	7008/09
Mechanical features								
Mounting			F1					
Frame	Material		Cast Iron FC-200					
Degree of protection			IP55					
Grounding			Double grounding (1 terminal box + 1 frame)					
Cooling method			TEFC					
Fan	Material	2P	Cast Iron FC-200					
		4P - 12P						
Fan cover	Material		Cast iron FC-200 (rolling bearings) - Steel (sleeve bearings)					
Endshields			Cast Iron FC-200					
Drain plug			Automatic drain plug					
Bearing	Shielded/clearance DE		C3					
	Shielded/clearance N.D.E.		C3					
	Locating bearing		Fixed on DE with external and internal bearing cap and preload spring N.D.E.					
	Drive end	2P	6314	6314	6218	6218	6220	6220
		4P - 12P	6320	6322	6324	6324	6328	6328
	Non-drive end	2P	6314	6314	6218	6218	6220	6220
		4P - 12P	6316	6319	6319	6319	6322	6322
Sleeve bearings	Axial clearence		6 mm				6 mm (2P) / 8 mm (4P)	
	Locating bearing		Located both bearings					
	Drive end	2P	9-80	9-80	9-80	9-80	9-80	9-80
		4P - 12P	9-90	9-100	11-110	11-110	11-125	11-125
	Non-drive end	2P	9-80	9-80	9-80	9-80	9-80	9-80
		4P - 12P	9-90	9-100	11-110	11-110	11-125	11-125
Bearing seal			Taconite Labyrinth					
Lubrification	Type of grease		Mobil Polyrex EM					
	Grease fitting		With grease fitting					
Terminal box	Material		Cast Iron FC-200					
Lead inlet	Main LV	Size	2 x NPT 3"	2 x NPT 4"				
	Main HV		NPT 3"					
	Additional		3 x NPT 3/4"					
	Plug		Plastic threaded plug					
Shaft	Material		AISI 4140					
	Threaded hole	2P	M20					
		4P -12P	M24					
Shaft key			C key					
Vibration level			Grade A					
Balancing without/half/full key			With 1/2 Key					
Nameplate	Material		Laser printed Stainless Steel AISI 304					
Painting	Type		214P				212P	
	Color		RAL 5009					
Electrical features								
Design			Low voltage, up to 500 cv - design N / high voltage - not applicable					
Voltage	Single speed		380 V a 6,600 V					
Winding	Impregnation		Low voltage - resin continuous flow / high voltage - VPI					
	Insulation class		F (DT 80K)					
Space heater			110/220 V - 220/440 V for safe area / single voltage for Hazardous Area					
Service factor			1.00					
Ambient temperature	Maximum		+40 °C					
	Minimum		-20 °C					
Starting method			DOL					
Rotor			Die cast aluminium (7006/07 8 poles with copper bar)					Copper bars
Thermal protection			Pt-100 - 3 wires (2 per phase)					

Mounting Configurations

NEMA Standard Mounting Configurations

Floor mountings			Ceiling mountings		
Assembly F-1	Assembly F-2	Assembly F-3	Assembly C-1	Assembly C-2	Assembly C-3
					
Wall mountings					
Asssembly W-1	Asssembly W-2	Asssembly W-3	Asssembly W-4	Asssembly W-5	Asssembly W-6
					
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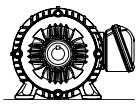
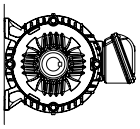
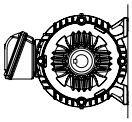
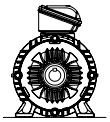
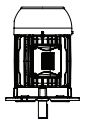
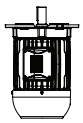
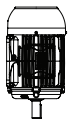
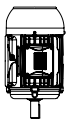
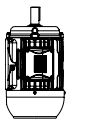
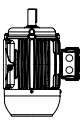
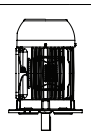
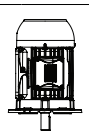
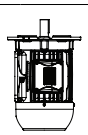
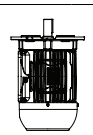
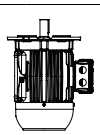
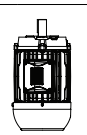
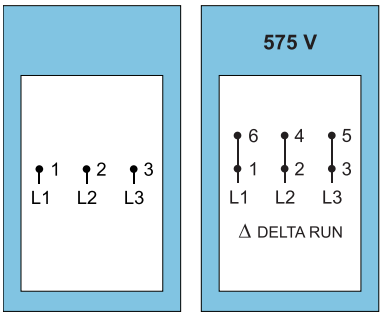
					

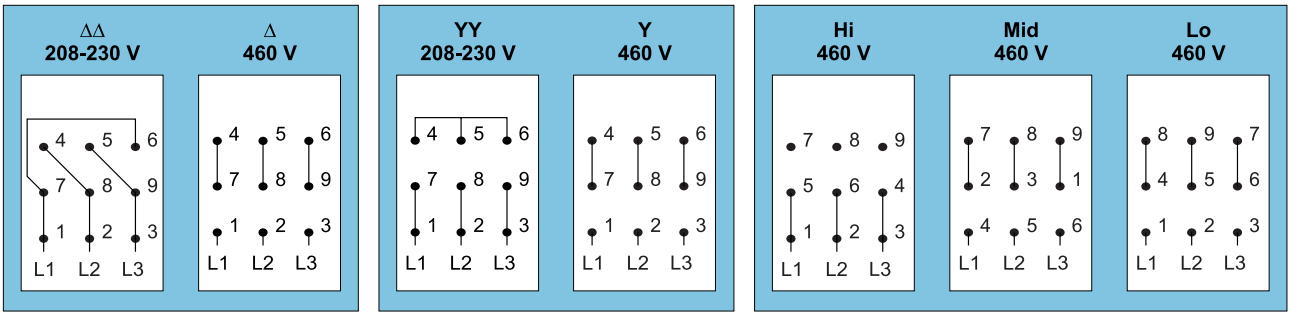
IEC Standard Mounting Configurations

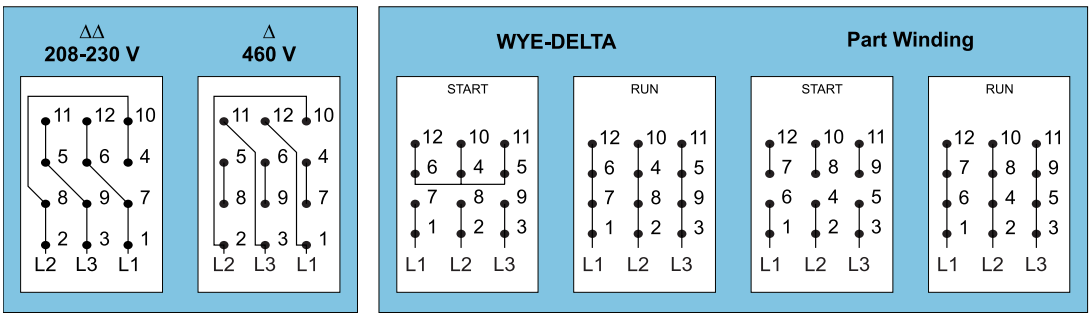
Assembly	Configuration												
Details	Reference	B3R	B3L	B3T	B5R	B5L	B5T	B6R	B6L	B6T	B7R	B7L	B7T
	Feet	With Feet			No Feet			With Feet			With Feet		
	Mounting	Base or Rails			Flange FF			Wall			Wall		
Assembly	Configuration												
Details	Reference	B8R	B8L	B8T	B14R	B14L	B14T	B34R	B34L	B34T	B35R	B35L	B35T
	Feet	With Feet			No Feet			With Feet			With Feet		
	Mounting	Ceiling			Flange FC			Base or Flange FC			Base or Flange FF		
Assembly	Configuration												
Details	Reference	V1L	V3L	V5R	V5L	V6R	V6L	V6T					
	Feet	No Feet		With Feet									
	Mounting	Flange FF		Wall									
Assembly	Configuration												
Details	Reference	V15R	V15L	V15T	V36R	V36L	V36T	V18L	V19L				
	Feet	With Feet						No Feet					
	Mounting	Wall or Flange FF						Flange FC					

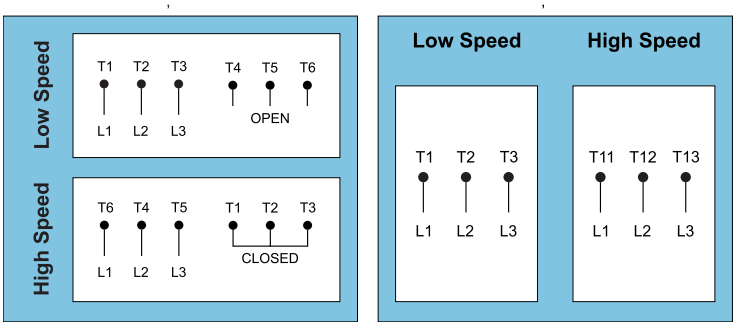
Three Phase Wiring Diagrams



This page is for information only.
It is imperative that motors only be connected as per the nameplate connection diagram found on the specific motor.







WEG Paint Plans

Paint Plan	Recommended Application	Composition
201A	For normal environment, slightly severe, sheltered or unsheltered, for industrial use, with low relative humidity, regular temperature variations and presence of SO2. Note: it is not recommended the direct exposure to acid vapors, alkalis and solvents.	Primer: One coat with 20 to 55 µm of primer alkyd-base oxide red. Finish: One coat with 40 to 60 µm of primer alkyd-base.
202P	For severe industrial environment, sheltered or unsheltered. May have presence of SO2, vapors and contaminating and high humidity.	Primer: One coat of Alkid synthetic primer: 20 to 30 µm. Intermediate: One coat of isocyanate epoxi primer with aluminum pigments (Lackpoxi N-2288) applied by conventional spray or paint roller, with dry coat thickness of 80 to 95 µm. Finishing: One coat of acrylic polyurethane paint (Lackthane N-2677) applied by conventional spray or paint roller, with dry coat thickness of 65 to 75 µm.
202E	For severe industrial environment, sheltered or unsheltered. May have presence of SO2, vapors and contaminating and high humidity.	Primer: One coat of Alkid synthetic primer: 20 to 30 µm. Intermediate: One coat of isocyanate epoxi primer with aluminum pigments (Lackpoxi N-2288) applied by conventional spray or paint roller, with dry coat thickness of 80 to 95 µm. Finishing: One coat of two-pack epoxy topcoat (Lackpoxi N-2628) applied by conventional spray or paint roller, with dry coat thickness of 100 to 130 µm.
203A	For normal environment, slightly severe, sheltered or unsheltered, for industrial use, with low relative humidity, regular temperature variations and presence of SO2. Note: it is not recommended the direct exposure to acid vapors, alkalis and solvents.	Primer: One coat with 20 to 55 µm of primer alkyd-base oxide red. Finish: One coat with 50 to 70 µm of primer alkyd-base.
207N	For regular environment, slightly severe and sheltered, for domestic use, with low relative humidity, regular temperature variations. Note: the direct exposure to acid vapors, alkalis and solvents is not recommended.	Primer: One coat with 20 µm to 55 µm of alkyd-base oxide red paint. Finish: One coat with 30 µm to 40 µm of Nitrocellulose – fast drying paint.
207A	For normal environment, slightly severe sheltered or unsheltered, for industrial use, with low relative humidity, regular temperature variations and presence of SO2. Note: it is not recommended the direct exposure to acid vapors, alkalis and solvents.	Primer: One coat with 20 to 55 µm of primer alkyd-base oxide red. Finish: One coat with 30 to 40 µm of primer styrene alkyd-base.
211E	Machines, devices and instruments manufactured with steel plate, operating at dry or humid environment, containing or not Sulfur derivate gases. Operation temperature: from 15ºC to 120ºC, without thermal insulation.	Primer: One coat of epoxy-phosphate zinc paint with high thickness in the color grey or white, applied by roller, brush or spray. The minimum thickness of the dry coat must be 100 µm. The interval to apply the intermediate coat must be at least 16 hours and not more than 48 hours. Finish: Two coats of aluminum phenolic paint in the color Aluminum (0170), with minimum dry coat thickness of 25 µm per coat, applied by roller or conventional spray. The interval to apply the next coat must be at least 24 hours and not more than 72 hours. If the color Aluminum is not specified, epoxy polyamide paint must be used instead of aluminum phenolic paint, with high coat thickness. One coat with minimum dry coat thickness of 100 µm, applied by roller or spray.
211P	Machines, devices and instruments manufactured with steel plate, operating at dry or humid environment, containing or not Sulfur derivate gases. Operation temperature: from 15ºC to 120ºC, without thermal insulation.	Primer: One coat of zinc epoxy-phosphate paint with high thickness in the color grey or white, applied by roller, brush or spray. The minimum thickness of the dry coat must be 100 µm. The interval to apply the finish coat must be at least 16 hours and not more than 48 hours. Finish: One coat of acrylic-polyurethane paint applied by roller or spray, with the dry coat thickness of 70 µm.

WEG Paint Plans

Paint Plan	Recommended Application	Composition
212P	Machines, devices and instruments manufactured with steel plate, operating at environment containing or not Sulfur derivate gases, situated on marine areas or in areas influenced by the sea shore. Operation temperature: from 15ºC to 120ºC, without thermal insulation.	Primer: One coat of epoxy-cured zinc dust amide paint applied by conventional spray (with mechanical purge) or airless spray (with mechanical purge). The minimum thickness of the dry coat must be 75 µm. The interval to apply the intermediate coat must be at least 16 hours and not more than 48 hours. Intermediate: One coat of epoxy-phosphate zinc paint with high thickness in the color white or gray, applied by roller, brush or airless spray. The minimum thickness of the dry coat must be 100 µm. The interval to apply the finish coat must be at least 16 hours and not more than 48 hours. Finish: One coat of acrylic polyurethane paint applied by roller or spray, with minimum dry coat thickness of 70 µm.
212E	Machines, devices and instruments manufactured with steel plate, operating at environment containing or not Sulfur derivate gases, situated on marine areas or in areas influenced by the sea shore. Operation temperature: from 15ºC to 120ºC, without thermal insulation.	Primer: One coat of epoxy-cured zinc dust amide paint applied by conventional spray (with mechanical purge) or airless spray (with mechanical purge). The minimum thickness of the dry coat must be 75 µm. The interval to apply the intermediate coat must be at least 16 hours and not more than 48 hours. Intermediate: One coat of epoxy-phosphate zinc paint with high thickness in the color white or gray, applied by roller, brush or airless spray. The minimum thickness of the dry coat must be 100 µm. The interval to apply the finish coat must be at least 16 hours and not more than 48 hours. Finish: Two coats of aluminum phenolic paint in the color Aluminum (0170), with the minimum dry coat thickness of 25 µm per coat, applied by roller or conventional spray. The interval between the coats must be at least 24 hours and not more than 72 hours. If the Aluminum color is not the specified, polyamide epoxy paint with high thickness must be used instead of the aluminum phenolic paint. One coat with minimum dry coat thickness of 100 µm, applied by roller or airless spray.
214P	Machines, devices and instruments cast or forged to any kind of environment or manufactured with steel plate, operating on dry or humid environment, without salinity, containing or not Sulfur derivate gases. Operation temperature of 15ºC to 80ºC, without thermal insulation.	Primer: One coat of epoxy-zinc polyamide paint applied by conventional spray (with mechanical purge) or airless spray (with mechanical purge). The thickness of the dry coat must be 70 µm. The interval to apply the finish coat must be at least 16 hours and not more than 48 hours. (Except parts in Aluminum). Finish: One coat of acrylic polyurethane paint applied by conventional spray or airless spray. The dry coat thickness must be of 70 µm.
216P		Primer: Two coats of epoxy “novolac” paint, type II, with minimum dry coat thickness of 175 µm per coat. Finish: One coat of acrylic polyurethane paint applied by conventional spray or airless spray. The dry coat thickness must be of 70 µm.

WEG Paint Plans vs. ISO 12944

WEG Painting Plans	WEG			ISO 12944					
	Weg Thickness µm	Weg Total Thickness µm	Weg Salt Spray Resistance hrs	Classification ISO 12944	Estimated Durability - ISO 12944-5			Thickness ISO 12944 µm	Minimal Salt Spray Resistance ISO 12944-6 hrs
					5 years	5 to 15 years	More than 15 years		
201A	20 - 55	60 - 115	120	C2	X			70 - 90	x
	40 - 60								
202P	20 - 30	165 - 200	500	C3			X	80 - 150	480
	80 - 95								
	65 - 75								
202E	20 - 30	200 - 255	500	C3			X	80 - 150	480
	80 - 95								
	100 - 130								
203A	20 - 55	70 - 125	240	C2	X			70 - 90	x
	50 - 70								
205P	20 - 55	105 - 175	300	C3		X		80 - 150	240
	20 - 30								
	65 - 90								
205E	20 - 55	140 - 215	300	C3		X		80 - 150	240
	20 - 30								
	100 - 130								
207 N	50 - 80	80 - 120	500	C3		X		80 - 150	240
	30 - 40								
207A	20 - 55	50 - 95	120	C2	X			70 - 90	x
	30 - 40								
211E	100 - 140	200 - 280	3000	C5 (I and M)			X	80 - 200	1440
	100 - 140								
211P	100 - 140	170 - 240	3000	C5 (I and M)			X	120 - 200	1440
	70 - 100								
212P	70 - 100	240 - 340	10000	C5 (I and M)			X	280 - 320	1440
	100 - 140								
	70 - 100								
212E	70 - 100	270 - 380	10000	C5 (I and M)			X	280 - 320	1440
	100 - 140								
	100 - 140								
214P	70 - 100	140 - 200	3000	C5 (I and M)			X	120 - 200	1440
	70 - 100								
216P	175 - 245	420 - 590	12000	C5 (I and M)			X	280 - 320	1440
	175 - 245								
	70 - 100								