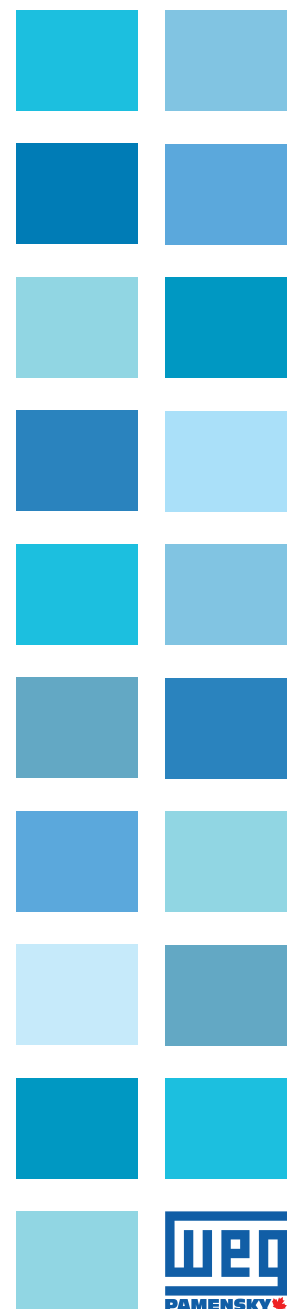


Motors



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 conditions unless 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, monetary exchange 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 determine that 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 has been 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 Seller's 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 any 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 exigé que la présente convention et tous les documents connexes soient 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

Table of Contents

General Purpose Three Phase Motors

Features Comparison	1.1
W01 Rolled Steel NEMA Premium Efficiency - TEFC	1.3
W22 NEMA Premium Efficiency - TEFC	1.7
W22 Super Premium Efficiency - TEFC	1.15
W22 IEEE 841-2009 - TEFC	1.21
Explosion Proof NEMA Premium Efficiency - TEFC	1.29
W01 Rolled Steel NEMA Premium Efficiency - ODP	1.36
W40 NEMA Premium Efficiency - ODP	1.40
W22 IEC Tru-Metric NEMA Premium Efficiency - TEFC	1.46

Fractional, 48 & 56 Frame & Single Phase Motors

W01 Rolled Steel 56 Frame Three Phase - TEFC	2.1
56 Frame Single Phase - TEFC	2.4
56 Frame Three Phase - TEFC	2.7
W01 Rolled Steel 56 Frame Three Phase - ODP	2.10
NEMA 48 & 56 Frame Single Phase - ODP	2.14
NEMA 56 Frame Three Phase - ODP	2.17
140T Frame and up Single Phase - TEFC	2.20
140T Frame and up Single Phase - ODP	2.24
56 Frame Explosion Proof - TEFC	2.26
56 Frame Compressor Duty - ODP	2.29
Farm Duty - TEFC	2.32

Pump Motors

W01 Jet Pump Three Phase - TEFC	3.1
W01 Jet Pump Three Phase - ODP	3.5
Jet Pump Single and Three Phase - TEFC	3.9
Jet Pump Single and Three Phase - ODP	3.14
JM & JP Single Phase - TEFC	3.19
W01 JM & JP Rolled Steel High Efficiency - TEFC	3.22
W01 JM & JP Rolled Steel NEMA Premium Efficiency - TEFC	3.26
W22 JM & JP High Efficiency - TEFC	3.30
W22 JM & JP NEMA Premium Efficiency - TEFC	3.35
W01 JM & JP Rolled Steel High Efficiency - ODP	3.40
W01 JM & JP Rolled Steel NEMA Premium Efficiency - ODP	3.43
JM & JP High Efficiency - ODP	3.46
JM & JP NEMA Premium Efficiency - ODP	3.52
W22 P-Base High Efficiency - TEFC	3.58
W22 P-Base NEMA Premium Efficiency - TEFC	3.62
In-Line Extra Thrust LP and LPH - TEFC	3.66
W22 Oil Well Pumping Motors - Triple Rated - TEFC	3.70

Definite Purpose Motors

W22 High Efficiency Brake Motors	4.1
W22 NEMA Premium Efficiency Brake Motors	4.7
Saw Arbor Motors	4.13

Machines

W22 Medium Voltage - TEFC	5.1
W40 Medium Voltage - ODP	5.4
HGF Low Voltage Motors	5.8
HGF Medium Voltage Motors	5.13
W50 Low Voltage Motors	5.18
W50 Medium Voltage Motors	5.22
M-Line Low Voltage Machines	5.26
M-Line Medium Voltage Machines	5.31
W60 Medium Voltage Machines	5.38

Parts & Modifications

Washdown Duty	6.1
Local Modifications	6.2
Loose Parts	6.4
Motor Bases	6.6

Reference	7.1
-----------	-----

General Purpose Motors Feature Comparison

	W01 Rolled Steel TEFC	W22 NEMA Premium Efficiency	W22 Super Premium Efficiency	W22 Medium Voltage	W22 IEEE 841-2009
	Page	Page	Page	Page	Page
					
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	W01 Rolled Steel ODP	W40 NEMA Premium Efficiency	W40 Medium Voltage	W22 IEC Tru-Metric
	Page	Page	Page	Page	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)
- 104°F (40°C) 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

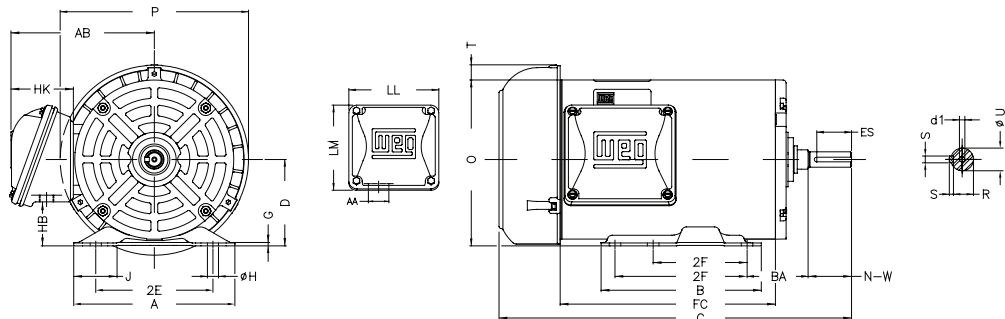
- 50Hz
- Special voltages
- Special shafts
- Oil Seal, Lip Seal
- Thermostats, Thermistors, RTD's (PT100)
- Drip cover (canopy) for shaft down applications
- NEMA C flange for all ratings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Forced ventilation
- No feet



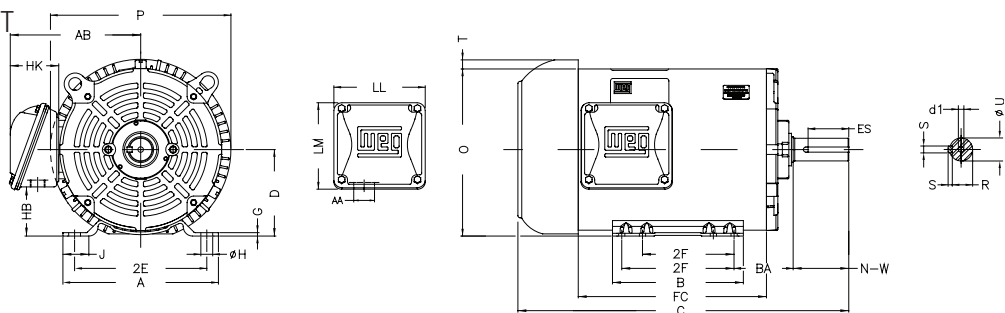
W01 Rolled Steel NEMA Premium Eff. Motors

TEFC - 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		1.299	1.299			8.557	9.435	0.661		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	0.406	1.575	5.551	5.250	10.144	11.306	0.761		A 4	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

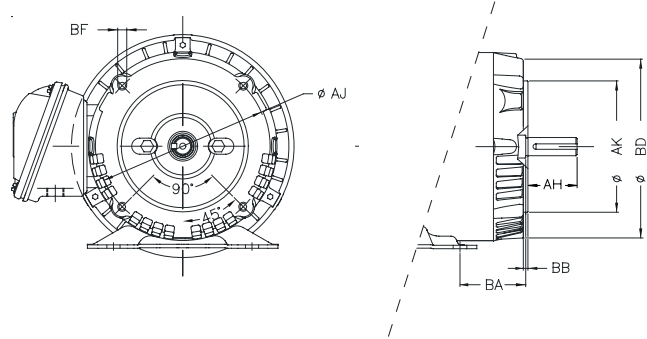
NEMA FRAME	OUTPUT		POLES	C	FC
	HP	KW			
143/5T	1	0.75	2	13.189	7.480
			4	13.583	7.874
			6	13.583	7.874
182/4T	1.5	1.1	2	13.189	7.480
			4	13.583	7.874
			6	16.339	8.661
143/5T	2	1.5	2	13.976	8.268
			4	17.126	9.449
			6	16.339	8.661
182/4T	3	2.2	2	16.339	8.661
			4	17.913	10.236
			6	19.291	10.630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

W01 Rolled Steel NEMA Premium Eff. Motors

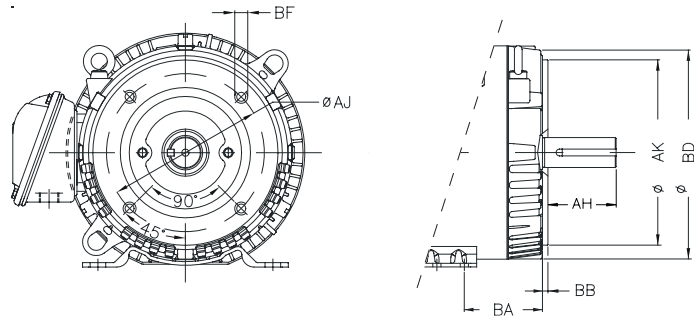
TEFC - Mechanical Data

"C" Flange Dimensions						
Frame	BA	Flange				
		AJ	AK	BB	BD	AH
143/5TC	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16 2.129
182/4TC	3.500				8.858	2.620
213/5TC	4.309	7.250	8.500	0.250	9.401	UNC 1/2"x13 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)
- 104°F (40°C) 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

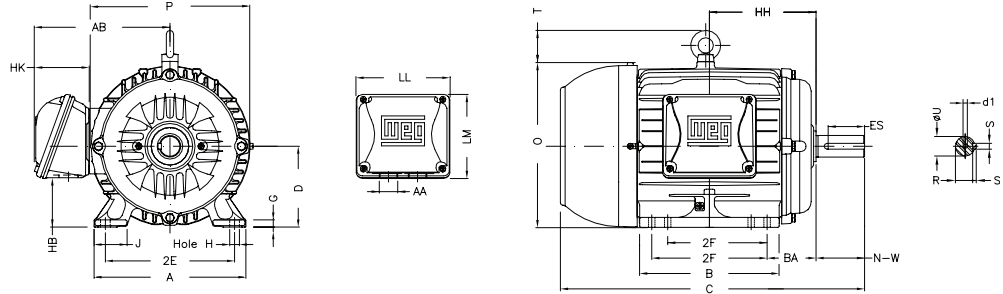
- 50Hz
- Special voltages
- Special shafts
- Space heaters (standard on 586/7T and 588/9T frames)
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD's (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges 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



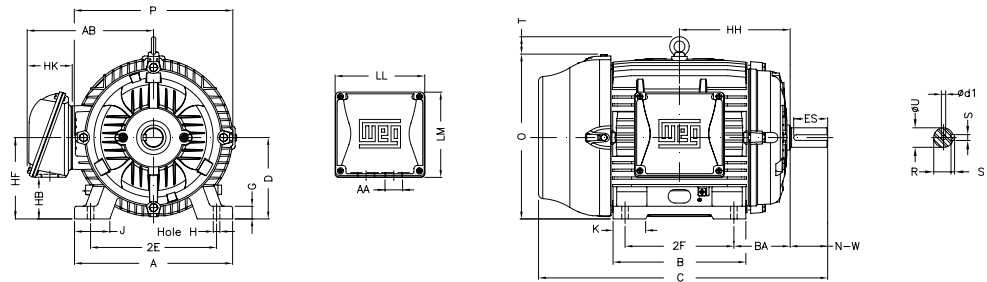
W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

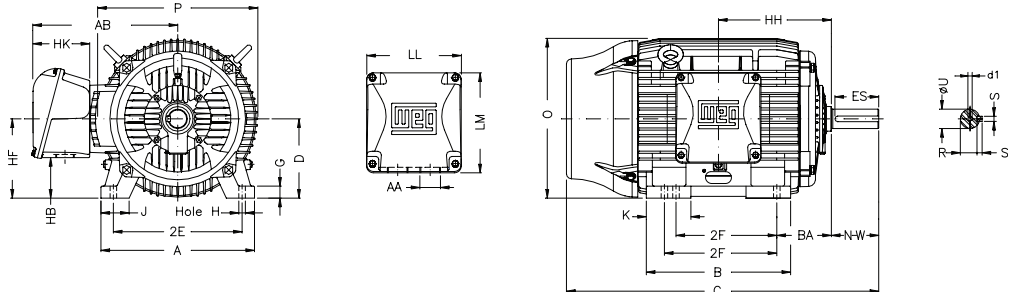
Frames 143T to 184T



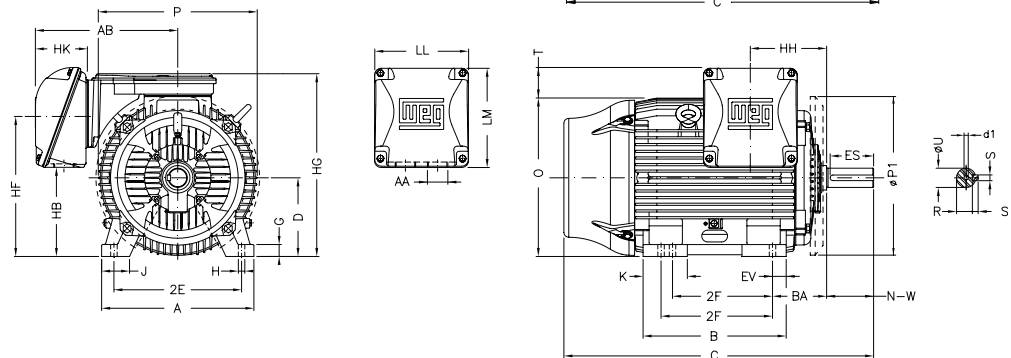
Frames 213T to 326T



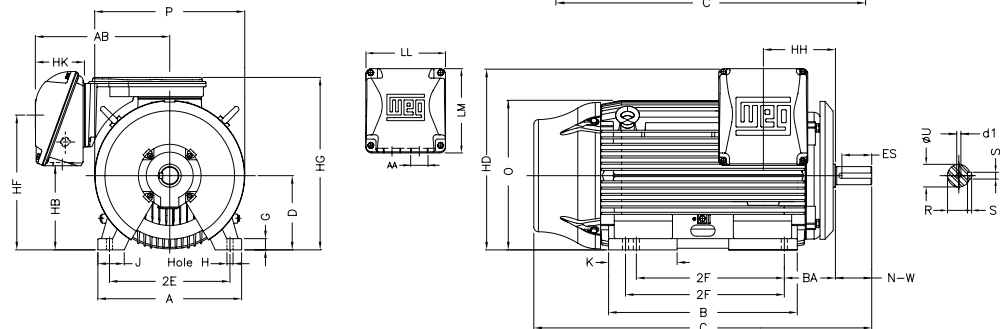
Frames 364 to 444/5T



Frames 445/7T to 586/7T



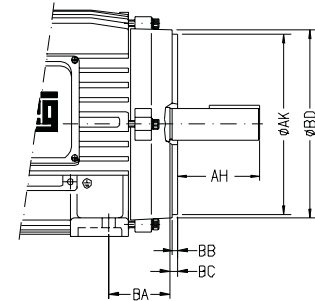
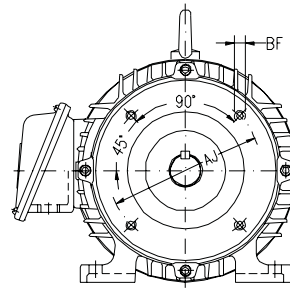
Frame 588/9T



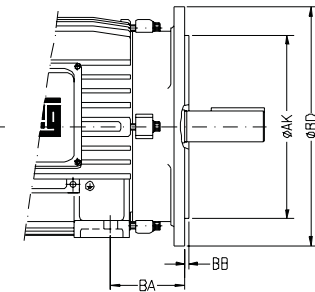
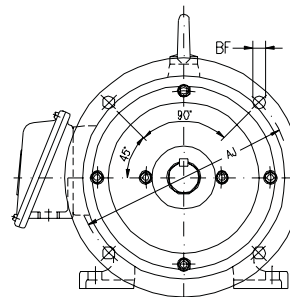
W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

"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			2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.75
284/6TC	4.750								9.000
284/6TSC	5.250			13.583					3.000
324/6TC					5.000				
324/6TSC					3.500				
364/5TC					5.625				
364/5TSC	5.875	11.000	12.500	15.551			0.250	0.250	3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC									8.250
444/5TSC	7.500	14.000	16.000	17.913	8	UNC 5/8"x11			4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
L447/9TC									8.250
L447/9TSC	8.500	14.500	16.500						4.500
504/5TC									10.375
504/5TSC									4.500
586/7TC									11.375
586/7TSC	10.000								4.500
588/9TC									
588/9TSC									
Available on request									



"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			
284/6TD	4.750						
284/6TSD							
324/6TD		5.250	16.000	14.000	18.000		
324/6TSD							
364/5TD	5.875						
364/5TSD							
404/5TD		6.625			22.000		
404/5TSD							
444/5TD	20.000					18.000	21.653
444/5TSD							
445/7TD		7.500					
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500		22.000	18.000	24.803		
504/5TSD							
586/7TD		10.000				30.000	28.000
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)
- 104°F (40°C) 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

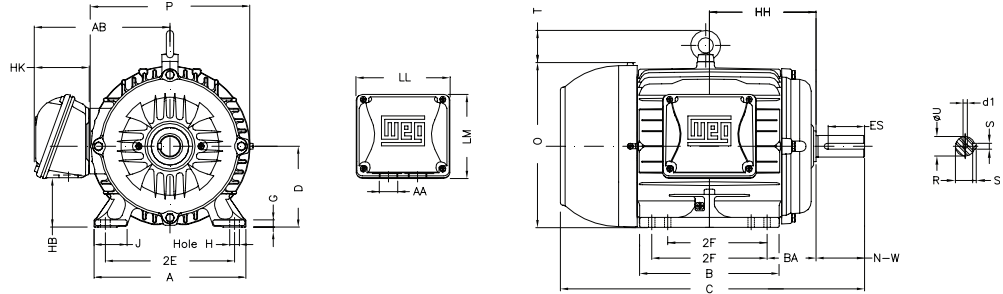
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
1	3600	143/5T	\$1,228	\$1,474	\$1,488	HT000X02SPW22	1.34	1.08	84.0	39.7	13.346	0.875
	1800	L143/5T	\$1,148	\$1,402	\$1,416	HT000X04SPW22	1.33	1.06	87.5	50.7	14.566	0.875
1.5	3600	143/5T	\$1,266	\$1,510	\$1,526	HT001X02SPW22	1.92	1.54	86.5	41.9	13.346	0.875
	1800	L143/5T	\$1,234	\$1,480	\$1,494	HT001X04SPW22	1.93	1.54	88.5	55.1	14.566	0.875
2	3600	143/5T	\$1,326	\$1,572	\$1,586	HT002X02SPW22	2.56	2.05	87.5	50.7	13.346	0.875
	1800	L143/5T	\$1,284	\$1,528	\$1,544	HT002X04SPW22	2.64	2.11	88.5	57.3	14.566	0.875
3	3600	182/4T	\$1,626	\$1,932	\$1,952	HT003X02SPW22	3.67	2.94	88.5	88.2	15.86	1.125
	1800	L182/4T	\$1,626	\$1,932	\$1,952	HT003X04SPW22	3.76	3.01	91.0	92.6	15.86	1.125
	1200	L213/5T	\$2,568	\$2,934	\$2,964	HT003X06SPW22	4.30	3.44	90.2	172	19.517	1.375
5	3600	182/4T	\$1,902	\$2,206	\$2,228	HT005X02SPW22	5.99	4.79	90.2	94.8	15.86	1.125
	1800	L182/4T	\$1,846	\$2,152	\$2,174	HT005X04SPW22	6.40	5.12	91.0	101	17.041	1.125
	1200	L213/5T	\$3,068	\$3,436	\$3,470	HT005X06SPW22	6.83	5.46	91.0	198	20.905	1.375
7.5	3600	213/5T	\$2,488	\$2,854	\$2,884	HT007X02SPW22	8.82	7.06	91.0	141	19.517	1.375
	1800	L213/5T	\$2,446	\$2,812	\$2,840	HT007X04SPW22	8.94	7.15	93.0	172	19.517	1.375
	1200	254/6T	\$4,726	\$5,276	\$5,328	HT007X06SPW22	9.46	7.57	92.4	304	24.945	1.625
10	3600	213/5T	\$2,868	\$3,234	\$3,266	HT010X02SPW22	11.5	9.20	91.7	172	19.517	1.375
	1800	L213/5T	\$2,886	\$3,252	\$3,284	HT010X04SPW22	12.0	9.60	93.0	181	20.905	1.375
	1200	254/6T	\$5,226	\$5,776	\$5,834	HT010X06SPW22	12.7	10.2	92.4	344	24.945	1.625
15	3600	254/6T	\$4,340	\$4,890	\$4,940	HT015X02SPW22	17.4	13.9	92.4	273	24.945	1.625
	1800	254/6T	\$4,156	\$4,708	\$4,754	HT015X04SPW22	17.8	14.2	93.6	280	24.945	1.625
	1200	284/6T	\$7,122	\$7,856	\$7,934	HT015X06SPW22	18.1	14.5	93.0	410	27.929	1.875
20	3600	254/6T	\$5,826	\$6,396	\$6,460	HT020X02SPW22	23.0	18.4	93.0	311	24.945	1.625
	1800	254/6T	\$5,294	\$5,864	\$5,922	HT020X04SPW22	24.7	19.8	94.1	326	24.945	1.625
	1200	284/6T	\$8,990	\$9,750	\$9,848	HT020X06SPW22	24.4	19.5	93.0	474	27.929	1.875
25	3600	284/6TS	\$7,366	\$8,100	\$8,182	HT025X02SPW22	28.5	22.8	93.6	386	27.929	1.875
	1800	284/6T	\$6,424	\$7,158	\$7,230	HT025X04SPW22	30.3	24.2	94.5	406	27.929	1.875
	1200	324/6T	\$11,292	\$12,208	\$12,330	HT025X06SPW22	30.8	24.6	94.1	527	31.116	2.125
30	3600	284/6TS	\$8,502	\$9,262	\$9,354	HT030X02SPW22	33.5	26.8	93.6	437	26.557	1.625
	1800	284/6T	\$7,538	\$8,298	\$8,382	HT030X04SPW22	35.6	28.5	94.5	450	27.929	1.875
	1200	324/6T	\$13,066	\$14,016	\$14,158	HT030X06SPW22	36.7	29.4	94.1	584	31.116	2.125
40	3600	324/6TS	\$10,120	\$10,970	\$11,080	HT040X02SPW22	46.5	37.2	94.1	547	31.116	2.125
	1800	324/6T	\$9,178	\$9,994	\$10,092	HT040X04SPW22	48.9	39.1	95.0	534	31.116	2.125
	1200	364/5T	\$15,834	\$17,464	\$17,640	HT040X06SPW22	48.9	39.1	95.0	875	34.251	2.375
50	3600	324/6TS	\$12,374	\$13,222	\$13,354	HT050X02SPW22	57.1	45.7	94.5	606	29.616	1.875
	1800	324/6T	\$10,840	\$11,688	\$11,806	HT050X04SPW22	60.1	48.1	95.4	597	31.116	2.125
	1200	364/5T	\$19,018	\$20,716	\$20,924	HT050X06SPW22	60.3	48.2	95.0	895	34.251	2.375
60	3600	364/5TS	\$15,878	\$17,508	\$17,684	HT060X02SPW22	66.8	53.4	95.0	926	32.276	1.875
	1800	364/5T	\$16,100	\$17,732	\$17,908	HT060X04SPW22	70.2	56.2	95.8	897	34.251	2.375
	1200	404/5T	\$21,802	\$23,432	\$23,666	HT060X06SPBBW22405T	72.2	57.8	95.4	1111	39.73	2.875
75	3600	364/5TS	\$21,250	\$22,948	\$23,176	HT075X02SPW22	82.6	66.1	95.0	937	32.276	1.875
	1800	364/5T	\$20,026	\$21,724	\$21,942	HT075X04SPW22	86.8	69.4	95.8	919	34.251	2.375
	1200	404/5T	\$24,646	\$26,344	\$26,606	HT075X06SPBBW22405T	89.3	71.4	95.4	1124	39.73	2.875
100	3600	404/5TS	\$27,210	\$28,908	\$29,196	HT100X02SPBBW22405TS	110	88.0	95.4	1179	36.732	2.125
	1800	404/5T	\$24,810	\$26,508	\$26,772	HT100X04SPBBW22405T	116	92.8	96.2	1188	39.73	2.875
	1200	444/5T	\$33,876	\$36,592	\$36,958	HT100X06SPBBW22445T	124	99.2	95.8	1896	44.95	3.375
125	3600	444/5TS	\$35,456	\$38,174	\$38,556	HT125X02SPBBW22445TS	136	109	95.8	1680	41.2	2.375
	1800	444/5T	\$31,772	\$34,490	\$34,834	HT125X04SPBBW22445T	144	115	96.2	1722	44.95	3.375
	1200	444/5T	\$40,580	\$43,410	\$43,844	HT125X06SPBBW22445T	152	122	95.8	1944	44.95	3.375
150	3600	444/5TS	\$45,554	\$48,384	\$48,868	HT150X02SPBBW22445TS	163	130	96.2	1863	41.2	2.375
	1800	444/5T	\$38,338	\$41,168	\$41,580	HT150X04SPBBW22445T	170	136	96.5	1951	44.95	3.375
	1200	447/9T	\$47,338	\$50,168	\$50,670	HT150X06SPBBW22449T	179	143	96.2	2255	56.338	3.375
200	3600	445/7TS	\$55,660	\$58,378	\$58,960	HT200X02SPBBW22447TS	217	174	96.2	2028	44.951	2.375
	1800	447/9T	\$47,078	\$49,908	\$50,406	HT200X04SPBBW22449T	234	187	96.8	2293	56.338	3.375
	1200	447/9T	\$60,322	\$63,152	\$63,784	HT200X06SPBBW22449T	245	196	96.2	2326	56.338	3.375
250	3600	445/7TS	\$62,936	\$65,654	\$66,310	HT250X02SPBBW22447TS	267	214	96.5	2183	44.951	2.375
	1800	447/9T	\$68,672	\$72,916	\$73,646	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

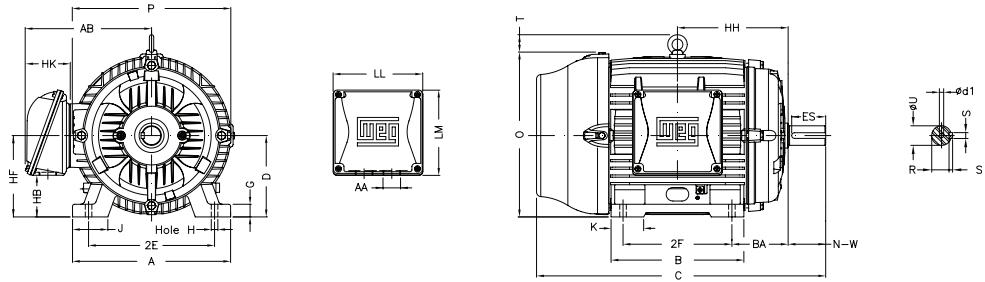
W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

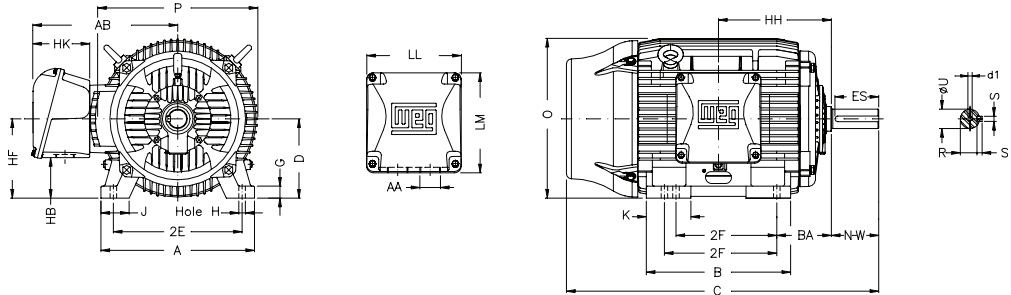
Frames 143T to 184T



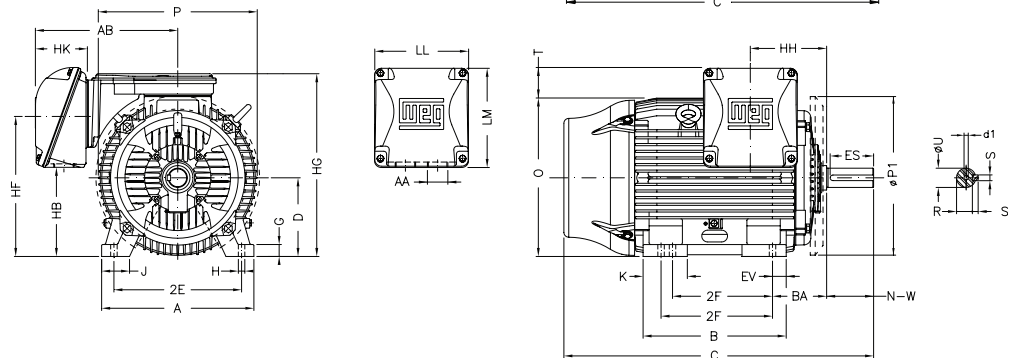
Frames 213T to 326T



Frames 364 to 444/5T



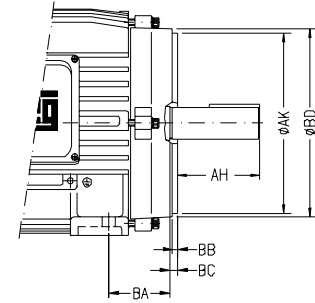
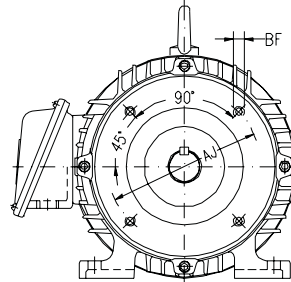
Frames 445/7T to 586/7T



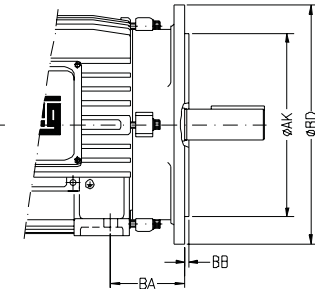
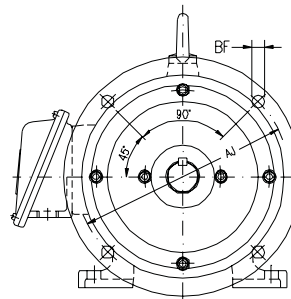
W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

"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								2.625
213/5TC	3.500	7.250	8.500	8.875					3.125
254/6TC	4.250					UNC 1/2"x13			3.75
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250			13.583					5.000
324/6TSC									3.500
364/5TC	5.875	11.000	12.500						5.625
364/5TSC				15.551					3.500
404/5TC	6.625				8	UNC 5/8"x11	0.250	0.250	7.000
404/5TSC									4.000
444/5TC									8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC	7.500	14.000	16.000	17.913					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			
284/6TD	4.750						
284/6TSD							
324/6TD		5.250	16.000	14.000			
324/6TSD							
364/5TD	5.875						
364/5TSD							
404/5TD		6.625	20.000	18.000	22.000	8	0.828
404/5TSD							
444/5TD	7.500						
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
586/7T	10.000						

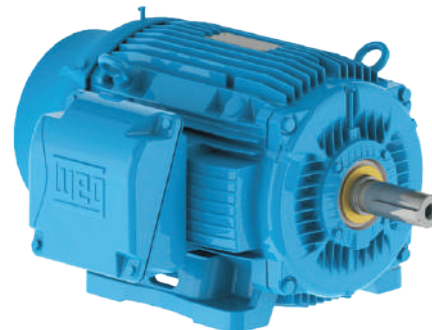


W22 IEEE 841-2009 Motors

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)
- 104°F (40°C) 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

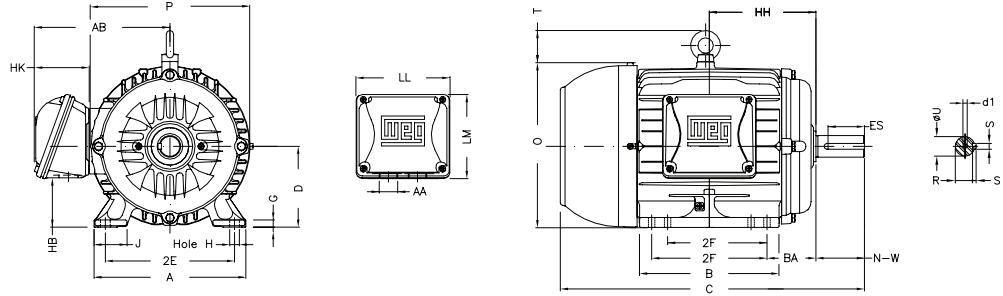
- 50 Hz
- Special Voltages
- Specially designed shaft
- Space heaters
- Second shaft end
- Thermistors, Thermostats or RTD's (PT100 - 3 wire)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Flange mount
- Bronze fan
- Inpro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



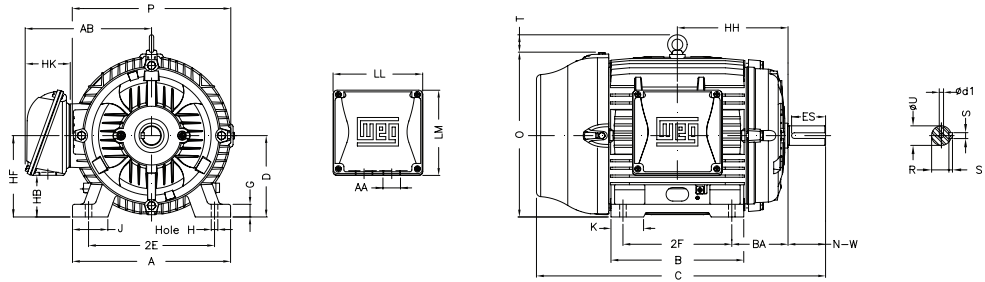
W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Mechanical Data

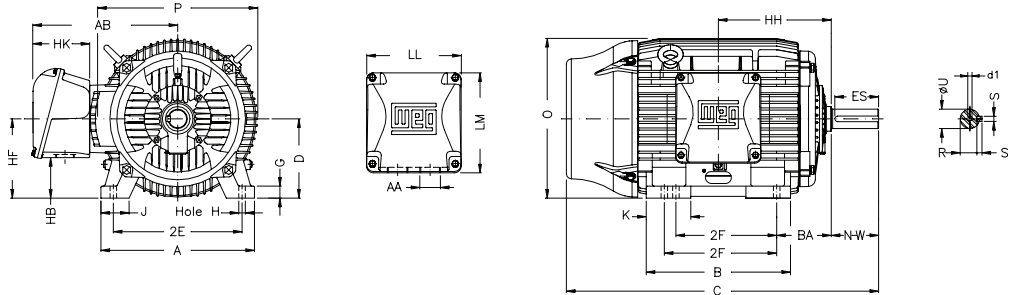
Frames 143T to 184T



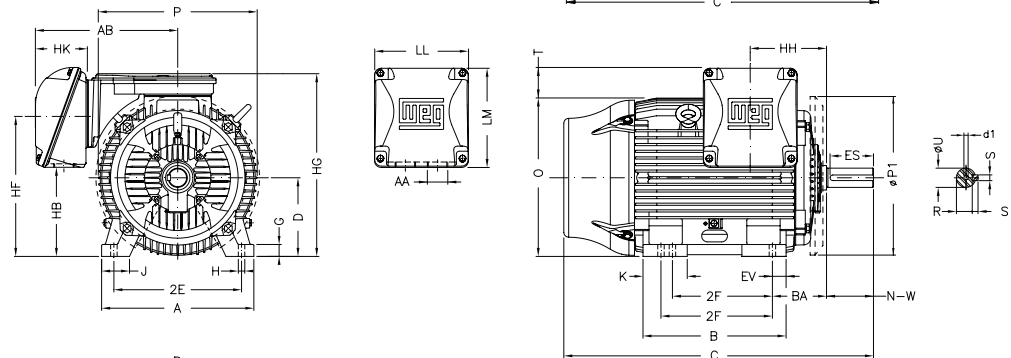
Frames 213T to 326T



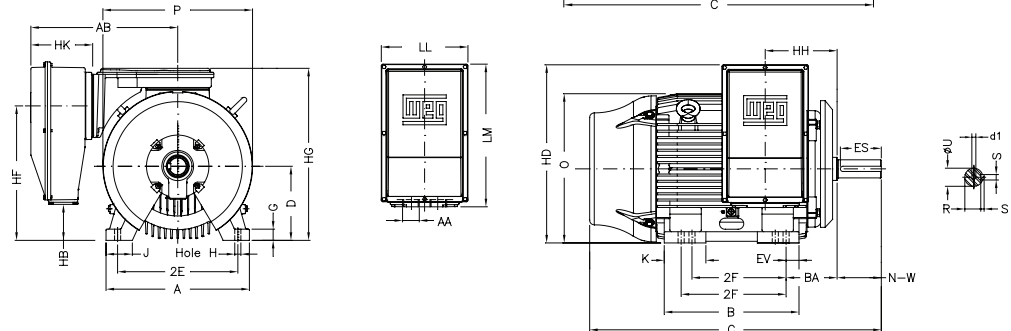
Frames 364 to 444/5T



Frames 445/7T to 586/7T



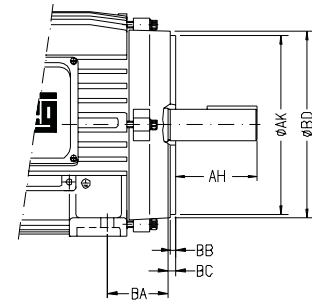
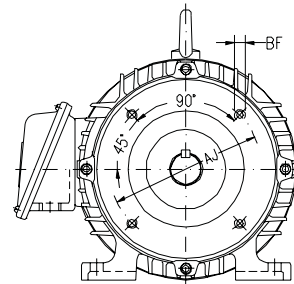
Frame 588/9T



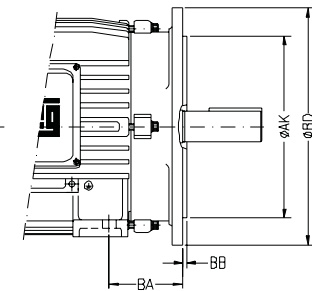
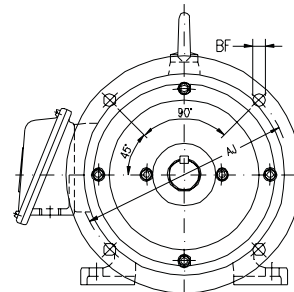
W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Mechanical Data

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



"D" FLANGE DIMENSIONS						
NEMA FRAMES	BA	AJ	AK	BD	BF	
					NUMBER	TAP SIZE
143/5TD	2.250	10.000	9.000	11.000	4	0.562
182/4TD	2.750					
213/5TD	3.500					
254/6TD	4.250					
284/6TD	4.750	12.500	11.000	14.000	8	0.828
284/6TSD						
324/6TD	5.250			18.000		
324/6TSD						
364/5TD	5.875	16.000	14.000	17.716		
364/5TSD						
404/5TD	6.625			22.000		
404/5TSD						
444/5TD						
444/5TSD						
445/7TD	7.500	20.000	18.000	21.653		
445/7TSD						
447/9TD						
447/9TSD						
504/5TD	8.500	22.000	18.000	24.803		
504/5TSD						
586/7TD		30.000	28.000	32.000		
586/7TSD	10.000					
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)
- 104°F (40°C) 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



NEMA Premium



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				
125	3600	444/5TS	\$43,260	\$47,132	\$47,602	HX125X02NP	138	110	95.0	1940	40.047	2.375
	1800	444/5T	\$40,166	\$44,038	\$44,478	HX125X04NP	143	114	95.4	2026	43.797	3.375
	1200	444/5T	\$50,998	\$54,870	\$57,080	HX125X06NP	150	120	95.0	2293	43.797	3.375
	900	447T	\$64,442	\$68,314	\$68,998	HX125X08NP447T	154	123	94.5	2337	47.339	3.375
	900	504/5T	\$64,442	\$68,530	\$69,214	HX125X08NP	154	123	94.5	2337	49.445	3.625
150	3600	444/5TS	\$50,194	\$54,066	\$54,606	HX150X02NP	161	129	95.4	1984	40.047	2.375
	1800	444/5T	\$45,522	\$49,394	\$49,888	HX150X04NP	170	136	95.8	2094	43.797	3.375
	1200	447T	\$68,016	\$71,886	\$72,506	HX150X06NP447T	174	139	95.8	2540	47.339	3.375
	1200	504/5T	\$58,016	\$62,102	\$62,724	HX150X06NP	174	139	95.8	2540	49.445	3.625
	900	447T	\$74,956	\$78,828	\$79,616	HX150X08NP447T	179	143	94.5	2646	47.339	3.375
200	900	504/5T	\$74,956	\$79,042	\$79,834	HX150X08NP	179	143	94.5	2646	49.445	3.625
	3600	447TS	\$67,450	\$71,320	\$72,034	HX200X02NP447TS	221	177	95.8	2491	46.875	2.875
	3600	504/5TS	\$67,450	\$71,536	\$72,252	HX200X02NP	221	177	95.8	2491	46.875	2.875
	1800	447T	\$57,452	\$61,324	\$61,936	HX200X04NP447T	230	184	96.2	2425	47.339	3.375
	1800	504/5T	\$57,452	\$61,538	\$62,154	HX200X04NP	230	184	96.2	2425	49.445	3.625
250	1200	447T	\$68,180	\$72,052	\$72,772	HX200X06NP447T	249	199	95.8	2615	47.339	3.375
	1200	504/5T	\$68,180	\$72,268	\$72,990	HX200X06NP	249	199	95.8	2615	49.445	3.625
	900	449T	\$113,342	\$117,214	\$118,386	HX200X08NP449T	283	226	95.0	3580	54.996	3.375
	900	586/7T	\$120,608	P.O.A	P.O.A	HX200X08NP	261	209	95.0	4167	61.389	3.875
	3600	447TS	\$71,032	\$74,904	\$75,654	HX250X02NP447TS	269	215	95.8	2491	46.875	2.875
300	3600	504/5TS	\$71,032	\$75,120	\$75,870	HX250X02NP	269	215	95.8	2491	46.875	2.875
	1800	447T	\$68,366	\$72,452	\$73,176	HX250X04NP447T	284	227	96.2	2646	47.339	3.375
	1800	504/5T	\$68,366	\$72,452	\$73,176	HX250X04NP	284	227	96.2	2646	49.445	3.625
	1200	449T	\$105,804	\$109,676	\$110,774	HX250X06NP449T	299	239	95.8	3188	54.996	3.375
	1200	586/7T	\$123,270	P.O.A	P.O.A	HX250X06NP	303	242	95.8	3858	61.389	3.875
350	900	586/7T	\$132,816	P.O.A	P.O.A	HX250X08NP	316	253	95.4	4409	61.389	3.875
	3600	449TS	\$103,706	\$107,578	\$108,654	HX300X02NP449TS	320	256	95.8	3307	51.246	2.375
	3600	586/7TS	\$120,354	P.O.A	P.O.A	HX300X02NP	328	262	95.8	4409	54.514	2.375
	1800	449T	\$90,300	\$94,172	\$95,114	HX300X04NP449T	334	267	96.2	3086	54.996	3.375
	1800	586/7T	\$104,416	P.O.A	P.O.A	HX300X04NP	338	270	96.2	4078	61.389	3.875
400	1200	449T	\$110,434	\$114,306	\$115,448	HX300X06NP449T	351	281	95.8	3197	54.996	3.375
	1200	586/7T	\$127,534	P.O.A	P.O.A	HX300X06NP	351	281	95.8	4189	61.389	3.875
	900	586/7T	\$155,152	P.O.A	P.O.A	HX300X08NP	376	301	95.4	4817	61.389	3.875
	3600	449TS	\$119,928	\$123,800	\$125,038	HX350X02NP449TS	379	303	95.8	3638	51.246	2.375
	3600	586/7TS	\$138,448	P.O.A	P.O.A	HX350X02NP	388	310	95.8	4409	54.514	2.375
450	1800	449T	\$98,362	\$102,234	\$103,256	HX350X04NP449T	390	312	96.2	3417	54.996	3.375
	1800	586/7T	\$113,582	P.O.A	P.O.A	HX350X04NP	395	316	96.2	4233	61.389	3.875
	1200	586/7T	\$147,198	P.O.A	P.O.A	HX350X06NP	421	337	95.8	4519	61.389	3.875
	900	586/7T	\$155,152	P.O.A	P.O.A	HX350X08NP	439	351	95.4	4894	61.389	3.875
	1800	586/7T	\$128,394	P.O.A	P.O.A	HX400X04NP	460	368	96.2	4365	61.389	3.875
500	1200	586/7T	\$169,886	P.O.A	P.O.A	HX400X06NP	479	383	95.8	4982	61.389	3.875
	1800	586/7T	\$137,040	P.O.A	P.O.A	HX450X04NP	501	401	96.2	4586	61.389	3.875
500	1800	586/7T	\$148,914	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 (l/l/n)	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
		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
250	185	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
		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
300	220	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
		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
		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

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)
- 104°F (40°C) 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	\$652	\$834	DP000X02NPW01	1.38	1.10	80.0	25.4	11.181	0.875
	1800	143/5T	\$656	\$838	DP000X04NPW01	1.51	1.21	85.5	34.4	11.181	0.875
	1200	143/5T	\$860	\$1,042	DP000X06NPW01	1.65	1.32	82.5	35.3	11.181	0.875
1.5	3600	143/5T	\$734	\$914	DP001X02NPW01	1.85	1.48	84.0	29.3	11.181	0.875
	1800	143/5T	\$734	\$914	DP001X04NPW01	2.07	1.66	86.5	41.9	12.362	0.875
	1200	182/4T	\$1,006	\$1,232	DP001X06NPW01	2.25	1.80	86.5	56.0	13.976	1.125
2	3600	143/5T	\$788	\$970	DP002X02NPW01	2.42	1.94	85.5	36.8	11.969	0.875
	1800	143/5T	\$760	\$942	DP002X04NPW01	2.69	2.15	86.5	39.0	12.362	0.875
	1200	182/4T	\$1,136	\$1,364	DP002X06NPW01	2.95	2.36	87.5	66.1	14.764	1.125
3	3600	143/5T	\$942	\$1,124	DP003X02NPW01	3.59	2.87	85.5	39.9	12.362	0.875
	1800	182/4T	\$838	\$1,064	DP003X04NPW01	3.86	3.09	89.5	65.9	15.157	1.125
	1200	213/5T	\$1,572	\$1,844	DP003X06NPW01	4.16	3.33	88.5	98.3	16.575	1.375
5	3600	182/4T	\$1,146	\$1,372	DP005X02NPW01	6.10	4.88	86.5	58.7	14.764	1.125
	1800	182/4T	\$1,078	\$1,304	DP005X04NPW01	6.33	5.06	89.5	79.8	16.339	1.125
	1200	213/5T	\$1,970	\$2,242	DP005X06NPW01	6.74	5.39	89.5	118	16.969	1.375
7.5	3600	182/4T	\$1,480	\$1,708	DP007X02NPW01	8.67	6.94	88.5	69.9	15.157	1.125
	1800	213/5T	\$1,450	\$1,720	DP007X04NPW01	9.25	7.40	91.0	116	16.575	1.375
	1200	254/6T	\$2,662	\$3,070	DP007X06NPW01	10.2	8.16	90.2	187	20.472	1.625
10	3600	213/5T	\$1,924	\$2,196	DP010X02NPW01	12.0	9.60	89.5	117	16.969	1.375
	1800	213/5T	\$1,766	\$2,038	DP010X04NPW01	12.4	9.92	91.7	137	17.756	1.375
	1200	254/6T	\$3,178	\$3,586	DP010X06NPW01	13.9	11.1	91.7	209	20.472	1.625
15	3600	213/5T	\$2,576	\$2,848	DP015X02NPW01	17.2	13.8	90.2	131	17.756	1.375
	1800	254/6T	\$2,390	\$2,798	DP015X04NPW01	18.6	14.9	93.0	175	20.472	1.625
20	3600	254/6T	\$2,970	\$3,378	DP020X02NPW01	23.8	19.0	91.0	151	20.472	1.625
	1800	254/6T	\$3,066	\$3,474	DP020X04NPW01	25.0	20.0	93.0	198	20.472	1.625
25	3600	254/6T	\$3,610	\$4,016	DP025X02NPW01	29.1	23.3	91.7	174	20.472	1.625

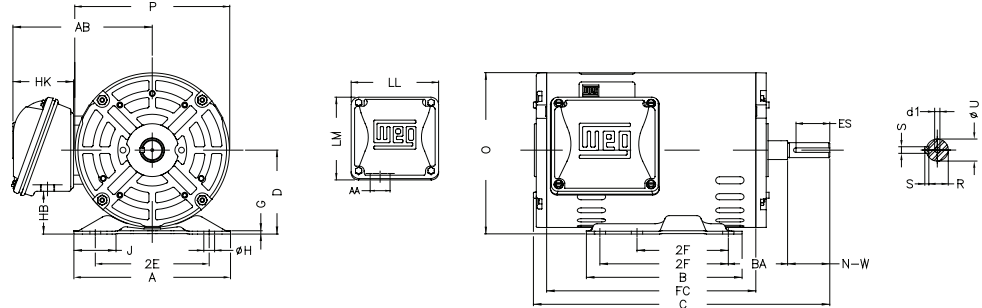
Flange: Replace 'DP' with 'CP' for C Flange
Voltage: Replace 'X' with '4' for 208-230/460V
Replace 'X' with '5' for 575V

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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
		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
20	15	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

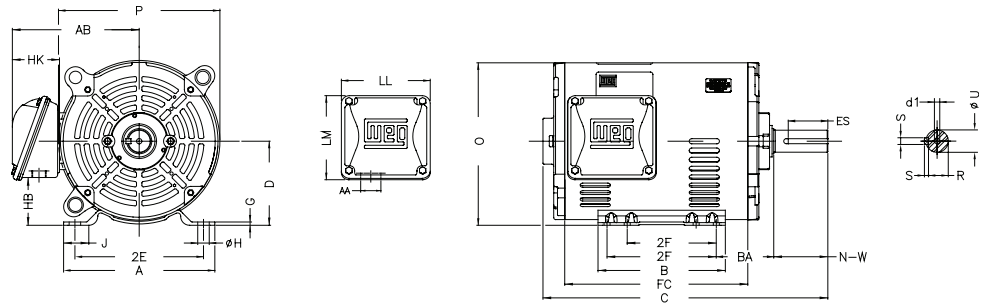
W01 Rolled Steel NEMA Premium Motors

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		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	A 4	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

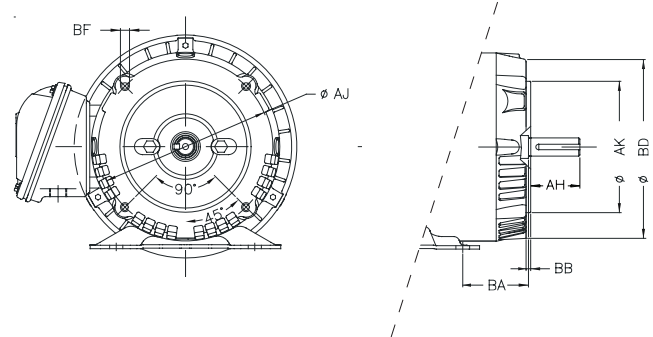
NEMA FRAME	OUTPUT		POLES	C	FC
	HP	kW			
143/5T	1	0.75	2	11.181	7.480
			4		
			6		
182/4T	1.5	1.1	2	12.362	8.661
			4		
			6		
143/5T	2	1.5	2	12.362	8.661
			4		
			6		
182/4T	3	2.2	2	12.362	8.661
			4		
			6		
213/5T	5	3.7	2	15.157	9.055
			4		
			6		
182/4T	7.5	5.5	2	16.575	10.236
			4		
			6		
213/5T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

W01 Rolled Steel NEMA Premium Motors

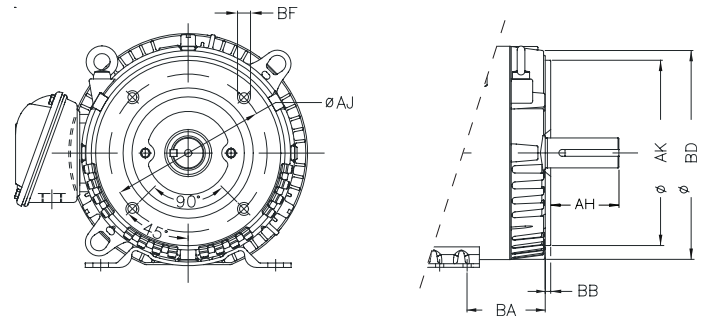
ODP - Mechanical Data

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

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)
 - WP11 (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



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

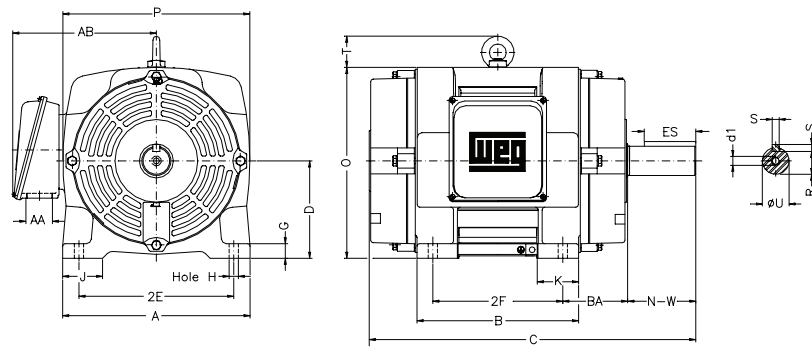
- 50 Hz
- Special voltages
- NEMA C & D flanges
- Specially designed shaft
- Second shaft end
- Thermistors, Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Roller bearings
- Shaft grounding (Aegis or WEG)
- IEC metric frames (on request) for frames 160M to 280S/M
- F2 and F3 mount
- Drip cover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



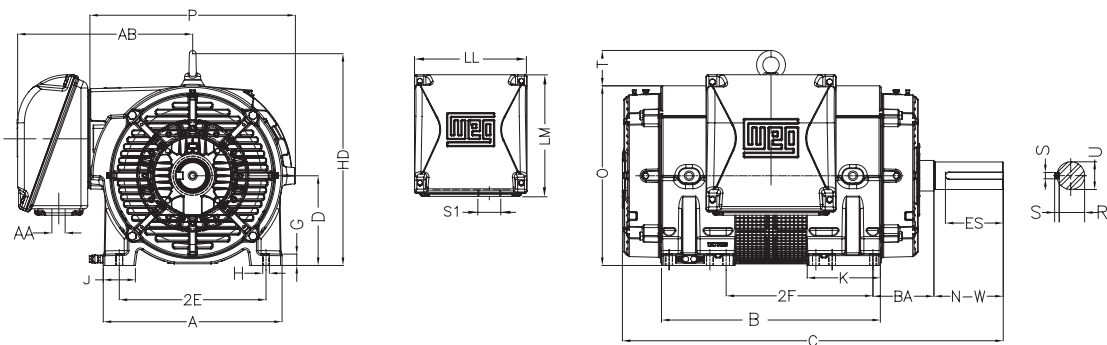
W40 NEMA Premium Motors

ODP - Mechanical Data

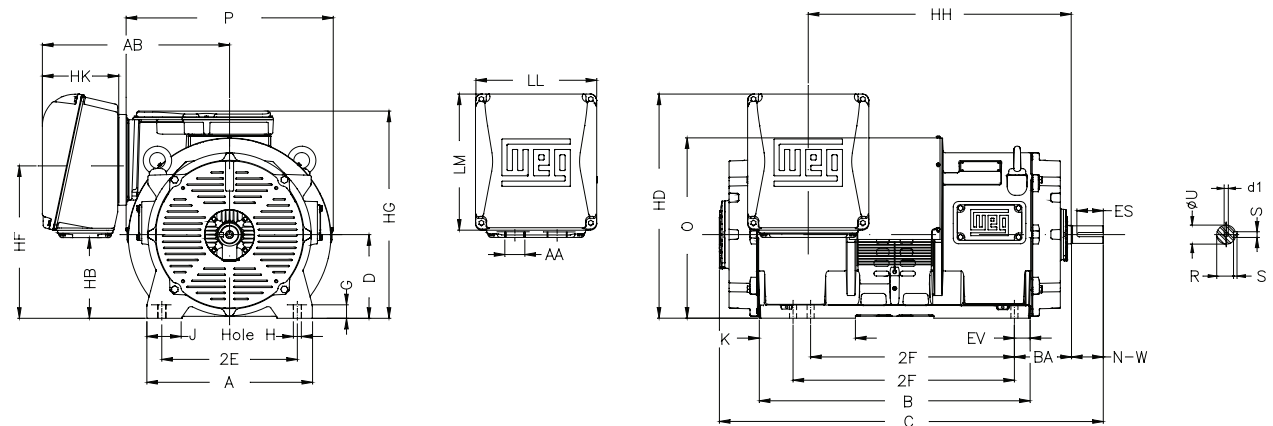
Frames 254T to 444/5T



Frame 447/9T



Frames L5010 to L5810

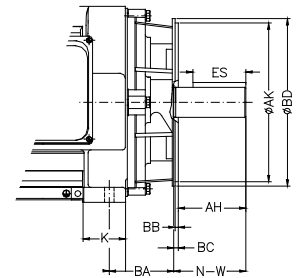
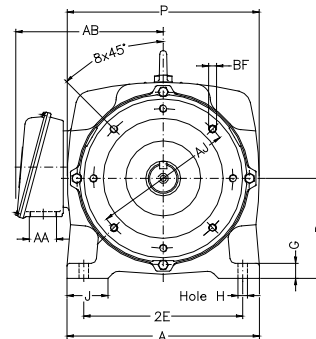


W40 NEMA Premium Motors

ODP - Mechanical Data

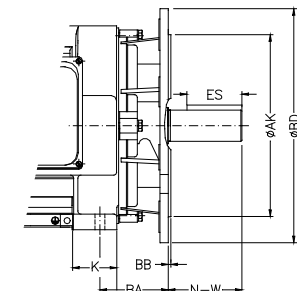
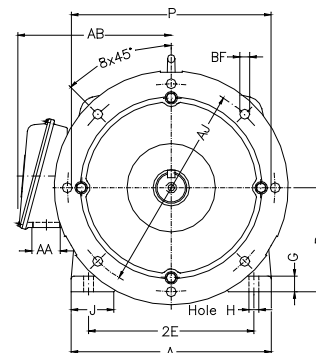
FC Flange

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			7.250					10.500			11.031	3.000										
284TS	4.75			10.500	11.031							4.375										
284T												3.000										
286TS												4.375										
286T												3.500										
324TS	5.25			11.000	12.500	15.562				UNC 5/8"x11		5.000	8									
324T			3.500																			
326TS			5.000																			
326T			3.500																			
364/5TS	5.875		11.000					12.500			15.562	UNC 5/8"x11		5.625								
364/5T														4.000								
404/5TS	6.625													11.000	12.500	15.562	UNC 5/8"x11	7.000				
404/5T																		4.500				
444/5TS	7.5																	11.000	12.500	15.562	UNC 5/8"x11	8.250
444/5T																						8.250
447/9TS																						8.250
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							3.000					
284TS	4.75					0.203	4.375					
284T							3.000					
286TS							4.375					
286T							3.500					
324TS	5.25	16.000	14.000	18.000		0.250	5.000		8			
324T							3.500					
326TS							5.000					
326T							3.500					
364/5TS	5.875			20.000			18.000			17.716	0.203	5.625
364/5T												4.000
404/5TS	6.625	21.653	7.000									
404/5T			4.500									
444/5TS			7.5							8.250		
444/5T										8.250		
447/9TS	8.250											
447/9T												



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 - Electrical Data - 60Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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
		1185	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
		890	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
45	60	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
		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
55	75	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
		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
75	100	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
		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
90	125	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
		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
110	150	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
		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
132	175	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
150	200	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
		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
150	200	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	0.61	0.79	0.87
		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 (l/l/n)	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
		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
200	270	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
220	300	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
		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
250	340	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
		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
260	350	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
		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
		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 (l/l/n)	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
		2975	315L	346	8.2	230%	250%	17	2877	78	1.00	96.0	96.4	96.5	0.85	0.90	0.91
200	270	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
220	300	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
		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
250	340	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
		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
260	350	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
		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 (l/l/n)	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
45	60	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
		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
55	75	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
		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
75	100	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
		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
90	125	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
		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
110	150	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
		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
132	175	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
150	200	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
		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
150	200	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

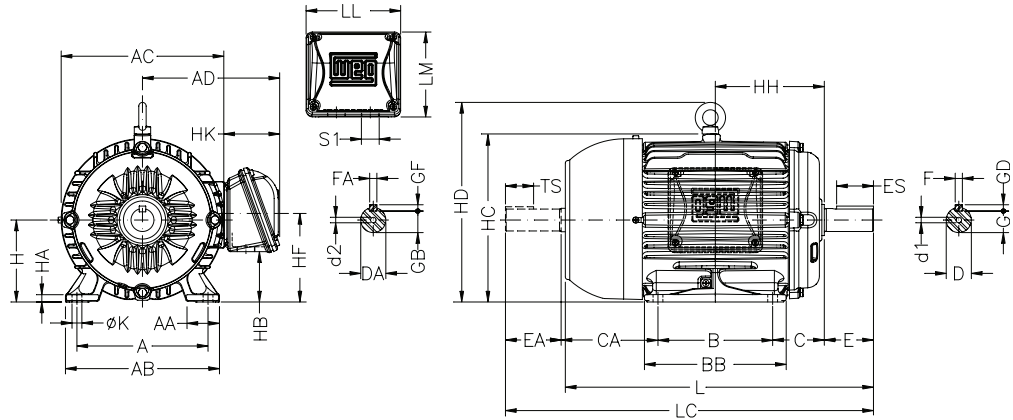
TEFC - Electrical Data - 50Hz (415V)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current (A)	Locked rotor current (l/l _n)	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
		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
280	380	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
		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
315	430	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

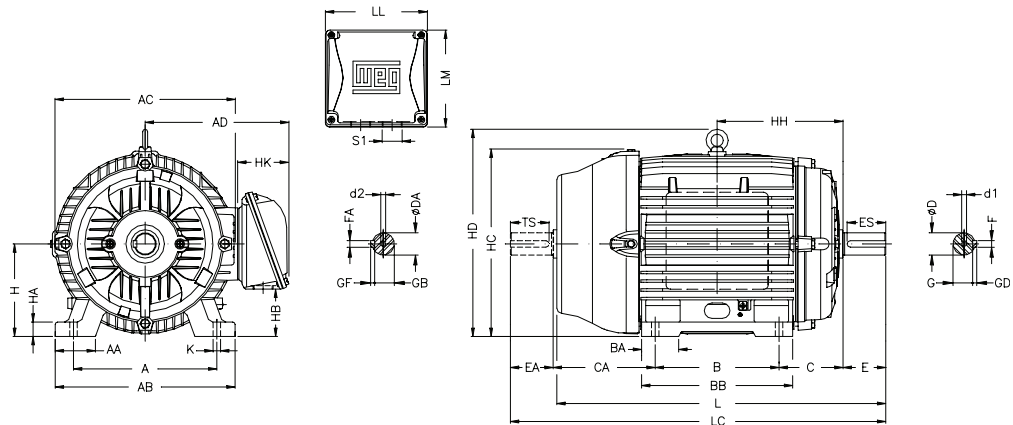
W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Mechanical Data

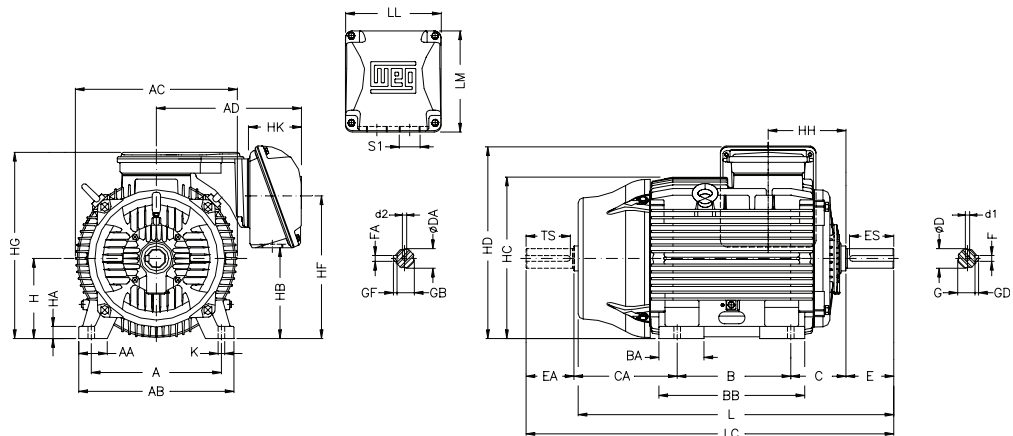
Frames 63 to 112



Frames 132 to 200



Frames 225 to 355 M/L



W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Mechanical Data

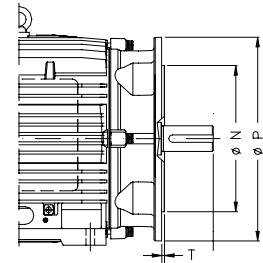
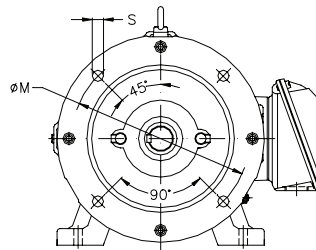
IEC FRAME	A	AA	AB	AC	AD	B	BA	BB	C	CA	SHAFT END																			
											D	DA	E	EA	ES	F	FA	G	GB	GD	GF	TS								
63	100	25.5	116	125	123	80	-	95	40	78	11j6	9j6	23	20	14	4	3	8.5	7.2	4	3	12								
71	112	28.5	132	141	131	90		113.5	45	88	14j6	11j6	30	23	18	5	4	11	8.5	5	4	14								
80	125	30.5	149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

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		276	313	DM6		DM4	6204 ZZ	6203 ZZ			
90L	90	9	182		10	329	375	2xM25x1.5	DM8	DM6	6205 ZZ	6204 ZZ		
90S						304	350							
100L						376	431							
L100L	100	10	205	244	12	420	475	2xM32x1.5	DM10	DM8	6206 ZZ	6205 ZZ		
112M	112		235	280		393	448				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				6311-C3	6211-Z-C3		
180M						664	782				DM20	DM20		
180L	180	28	366	413	18.5	702	820	2xM50x1.5	DM20	DM20	6312-C3	6212-Z-C3		
200L	200	30	407	464		767	880				6314-C3	6314-C3		
225S/M	225	34	453	541		886	1034				2xM63x1.5			6316-C3
250S/M	250	43	493	583	24	965	1113	6319-C3						6316-C3
280S/M	280	42	580	700		1071	1223	DM24						6322-C3
315S/M	315	48	644	768	28	1274	1426							
315L				774		1383	1536							
355M/L	355	50	723	898		1482	1677							

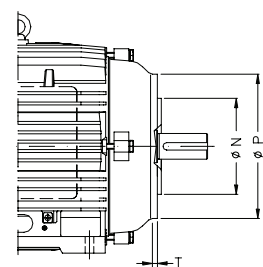
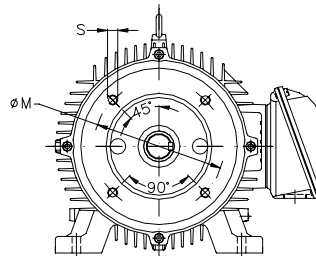
W22 IEC Tru-Metric - NEMA Premium Efficiency

TEFC - Mechanical Data

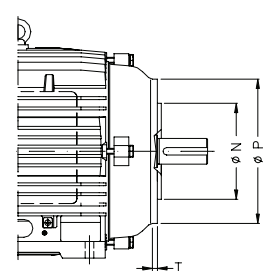
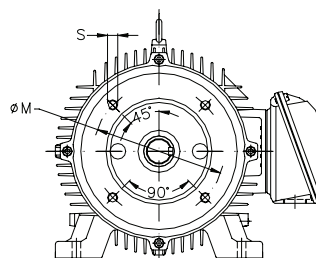
Flange "FF" Dimensions								
IEC FRAME	FLANGE	M	N	P	S	T	α	Nº of holes
63	FF-115	115	95	140	10	3	45°	4
71	FF-130	130	110	160		12		
80	FF-165	165	130	200	4			
90								
100	FF-215	215	180	250	15			
112								
132	FF-265	265	230	300	19	5		
160	FF-300	300	250	350				
180								
200	FF-350	350	300	400	19	5		
225	FF-400	400	350	450				
250	FF-500	500	450	550	19	5	22°30'	8
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	6.3		
160	C-250	215	180	249	M12x1.75			



NEMA “C” Flange Dimensions													
IEC FRAME	FLANGE	M	N	P	S	T		N° of holes					
63	FC-95	95.2	76.2	143	UNC 1/4"x20	4	45°	4					
71					UNC 3/8"x16								
80													
90	FC-149	149.2	114.3	165	UNC 3/8"x16	6.3							
100					UNC 1/2"x13								
112													
132	FC-184	184.2	215.9	225	UNC 1/2"x13	6.3							
160	FC-228	228.6	266.7	280									
180													
200	FC-228	228.6	266.7	280	UNC 5/8"x11	6.3	22°30'	8					
225	FC-279	279.4	317.5	395					455				
250	FC-355	355.6	406.4										
280													
315													
355	FC-368	368.3	419.1										



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)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkylid 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	\$2,402	CT000X04NPW22VD	1.41	1.13	85.5	53	14.678	.875
1.5	1800	143/5TC	\$2,616	CT001X04NPW22VD	2.0	1.60	86.5	56	14.678	.875
2	1800	143/5TC	\$2,880	CT002X04NPW22VD	2.65	2.12	86.5	61	14.678	.875
3	1800	182/4TC	\$3,708	CT003X04NPW22VD	3.91	3.13	89.5	101	16.569	1.125
5	1800	182/4TC	\$4,264	CT005X04NPW22VD	7.11	5.69	89.5	110	16.569	1.125
7.5	1800	213/5TC	\$6,276	CT007X04NPW22VD	9.1	7.28	91.7	171	20.041	1.375
10	1800	213/5TC	\$7,140	CT010X04NPW22VD	13.3	10.64	91.7	198	20.041	1.375
15	1800	254/6TC	\$9,030	CT015X04NPW22VD	19.4	15.52	92.4	324	25.569	1.625
20	1800	254/6TC	\$10,292	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	\$442	\$548	TF.25102W01	4.20	2.10	16.3	10.713
	1800	W56	\$538	\$654	TF.25104W01	4.60	2.30	17.0	11.106
0.33	3600	W56	\$462	\$566	TF.33102W01	5.20	2.60	19.1	11.106
	1800	W56	\$540	\$646	TF.33104W01	6.00	3.00	18.3	11.500
0.5	3600	W56	\$512	\$616	TF.50102W01	7.00	3.50	21.5	11.500
	1800	W56	\$614	\$720	TF.50104W01	8.00	4.00	21.3	11.894
	1200	56	\$698	\$804	TF.50106W01	6.40	3.20	30.9	13.508
0.75	3600	56	\$554	\$660	TF.75102W01	8.00	4.00	26.5	12.721
	1800	56	\$754	\$860	TF.75104W01	10.6	5.30	28.7	13.114
	1200	56H	\$888	\$994	TF.75106W01	9.40	4.70	35.3	14.295
1	3600	56	\$660	\$764	TF000102W01	10.2	5.10	28.7	13.114
	1800	56	\$806	\$912	TF000104W01	13.6	6.80	33.1	13.902
	1200	56H	\$1,094	\$1,200	TF000106W01	11.0	5.50	43.0	15.083
1.5	3600	56	\$854	\$960	TF001102W01	13.2	6.60	32.0	13.902
	1800	56H	\$984	\$1,088	TF001104W01	14.96	7.48	43.0	15.083
2	3600	56H	\$1,028	\$1,134	TF002102W01	17.4	8.70	35.3	14.295
	1800	56H	\$1,132	\$1,236	TF002104W01	20.0	10.0	46.3	15.870
3	3600	56H	\$1,368	\$1,474	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	\$480	\$586	TF.25102W01DOE	2.52	1.26	22.9	-
	1800	W56	\$570	\$688	TF.25104W01DOE	2.90	1.45	20.4	11.500
0.33	3600	W56	\$502	\$644	TF.33102W01DOE	3.18	1.59	24.0	-
	1800	W56	\$570	\$688	TF.33104W01DOE	3.76	1.88	25.0	12.287
0.5	3600	W56	\$556	\$660	TF.50102W01DOE	4.78	2.39	24.1	-
	1800	W56	\$688	\$794	TF.50104W01DOE	5.22	2.61	36.5	12.681
0.75	3600	56	\$594	\$688	TF.75102W01DOE	6.54	3.27	30.5	-
	1800	56	\$884	\$990	TF.75104W01DOE	7.00	3.50	35.1	14.295
1	3600	56	\$704	\$810	TF000102W01DOE	8.74	4.37	35.2	13.902
	1800	56	\$936	\$1,042	TF000104W01DOE	9.38	4.69	44.0	15.083
1.5	3600	56	\$906	\$1,012	TF001102W01DOE	12.4	6.18	38.6	14.295
	1800	56H	\$1,142	\$1,246	TF001104W01DOE	13.8	6.90	48.2	15.083
2	3600	56H	\$1,104	\$1,210	TF002102W01DOE	16.6	8.32	43.7	14.689
	1800	56H	\$1,386	\$1,492	TF002104W01DOE	18.8	9.41	57.1	15.870
3	3600	56H	\$1,442	\$1,548	TF003102W01DOE	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

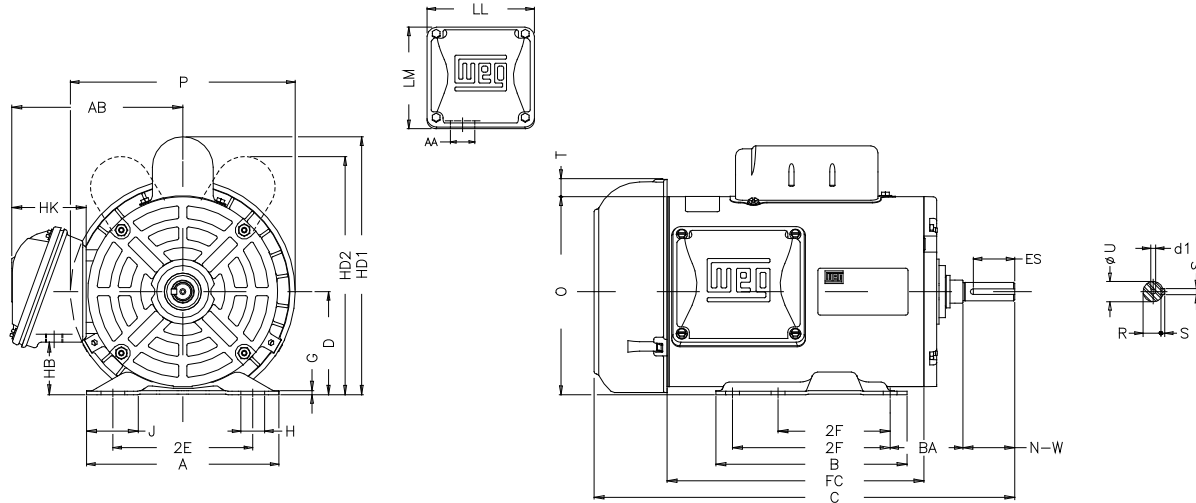
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V					50%	75%	100%	50%	75%	100%
0.25	0.18	3485	W56	4.20	2.10	290%	300%	18	1.15	35.0	44.0	50.0	0.60	0.68	0.74
		1735	W56	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

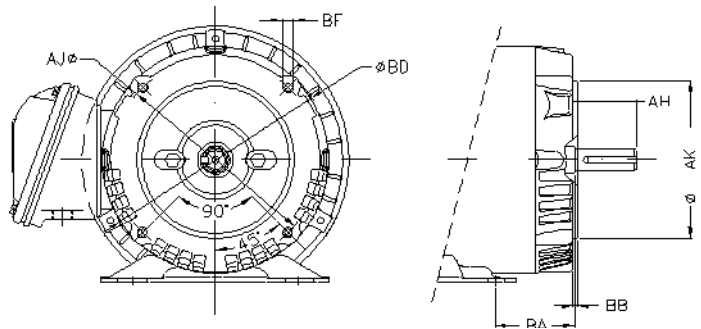
NEMA 56 Frame Single Phase Motors

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				1.784					2.629	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				6.468		
56C	5.874	4.500	0.157	6.450	UNC 3/8" x 16	2.062
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)
- 104°F (40°C) 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	\$530	\$648	TF.25X02W01	0.46	0.37	57.5	17.2	11.142	5.512	0.625
	1800	56	\$530	\$648	TF.25X04W01	0.52	0.42	70.0	18.1	11.142	5.512	0.625
	1200	56	\$556	\$674	TF.25X06W01	0.55	0.44	68.0	19.0	11.535	5.906	0.625
0.33	3600	56	\$538	\$656	TF.33X02W01	0.60	0.48	62.0	17.2	11.142	5.512	0.625
	1800	56	\$538	\$656	TF.33X04W01	0.62	0.50	74.0	19.4	11.535	5.906	0.625
	1200	56	\$574	\$632	TF.33X06W01	0.72	0.58	70.0	21.8	11.929	6.299	0.625
0.5	3600	56	\$548	\$666	TF.50X02W01	0.84	0.67	68.0	19.0	11.535	5.906	0.625
	1800	56	\$600	\$718	TF.50X04W01	0.86	0.69	77.0	20.9	11.535	5.906	0.625
	1200	56	\$668	\$786	TF.50X06W01	0.99	0.79	72.0	24.7	12.323	6.693	0.625
0.75	3600	56	\$632	\$752	TF.75X02W01	1.13	0.90	72.0	20.3	11.535	5.906	0.625
	1800	56	\$654	\$772	TF.75X04W01	1.22	0.98	78.5	22.5	11.929	6.299	0.625
	1200	56H	\$692	\$810	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	\$570	\$688	TF.25X02W01DOE	0.46	0.37	66.0	15	10.319	5.512	0.625
	1800	W56	\$568	\$686	TF.25X04W01DOE	0.48	0.39	70.0	18.5	10.319	5.512	0.625
	1200	56	\$588	\$706	TF.25X06W01DOE	0.52	0.42	72.0	25.6	11.535	5.906	0.625
0.33	3600	W56	\$570	\$688	TF.33X02W01DOE	.59	0.47	70.0	17.5	10.319	5.512	0.625
	1800	W56	\$580	\$698	TF.33X04W01DOE	0.62	0.50	74.0	19.5	10.713	5.906	0.625
	1200	56	\$568	\$686	TF.33X06W01DOE	0.72	0.58	72.0	28.2	11.929	6.299	0.625
0.5	3600	W56	\$582	\$700	TF.50X02W01DOE	0.79	0.63	74.0	19.4	10.713	5.906	0.625
	1800	W56	\$650	\$768	TF.50X04W01DOE	0.78	0.63	78.5	20.9	11.500	6.693	0.625
	1200	56	\$746	\$864	TF.50X06W01DOE	0.98	0.79	75.5	30.9	12.323	6.693	0.625
0.75	3600	W56	\$678	\$796	TF.75X02W01DOE	1.12	0.90	77.0	20.5	10.713	5.906	0.625
	1800	56	\$722	\$840	TF.75X04W01DOE	1.19	0.96	81.5	30.2	12.323	6.693	0.625
	1200	56H	\$824	\$944	TF.75X06W01DOE	1.29	1.03	82.5	36.2	13.110	7.480	0.625
1	3600	W56	\$762	\$882	TF000X02W01DOE	1.50	1.20	78.5	20.5	11.106	6.300	0.625
	1800	56	\$828	\$946	TF000X04W01DOE	1.47	1.18	85.5	37.9	13.504	7.874	0.625
	1200	56H	\$996	\$1,114	TF000X06W01DOE	1.58	1.26	82.5	38.6	13.504	7.874	0.625
1.5	3600	56H	\$870	\$988	TF001X02W01DOE	1.87	1.50	84	34.2	13.109	7.480	0.625
	1800	56H	\$922	\$1,040	TF001X04W01DOE	2.02	1.62	86.5	37.9	13.504	7.874	0.625
2	3600	56H	\$878	\$996	TF002X02W01DOE	2.47	1.98	85.5	40.1	13.898	8.268	0.625
	1800	56H	\$1,012	\$1,130	TF002X04W01DOE	2.72	2.18	86.5	42.3	13.898	8.268	0.625
3	3600	56H	\$1,150	\$1,268	TF003X02W01DOE	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

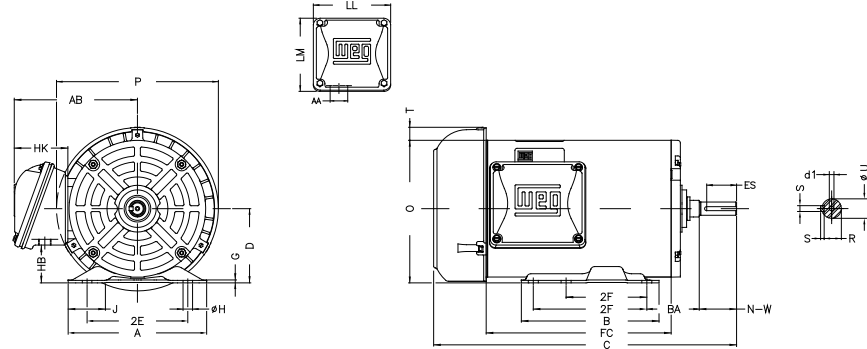
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (ll/ln)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.25	0.18	3475	56	0.91	0.46	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 (ll/ln)	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

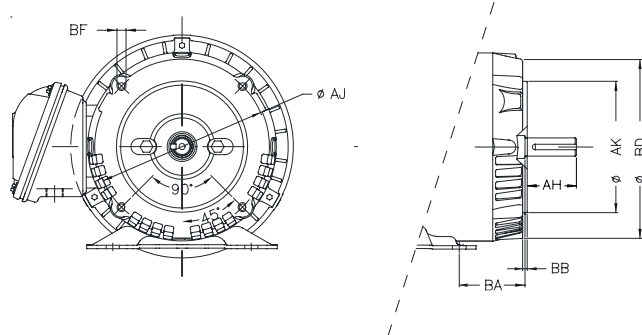
W01 Rolled Steel 56 Frame Three Phase Motors

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)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Paint: Synthetic enamel alkyd resin base
- Color: Munsell N1 - Flat Black



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				

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



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	\$412	\$530	OF.25X02W01	0.49	0.39	64.0	16.1	10.315	0.625
	1800	56	\$412	\$530	OF.25X04W01	0.57	0.46	66.0	15.7	9.921	0.625
	1200	56	\$542	\$660	OF.25X06W01	0.60	0.48	64.0	17.0	10.315	0.625
0.33	3600	56	\$420	\$538	OF.33X02W01	0.66	0.53	66.0	16.1	10.315	0.625
	1800	56	\$420	\$538	OF.33X04W01	0.72	0.58	68.0	15.7	9.921	0.625
	1200	56	\$550	\$668	OF.33X06W01	0.76	0.60	68.0	18.3	10.315	0.625
0.5	3600	56	\$440	\$558	OF.50X02W01	0.95	0.76	68.0	16.3	10.315	0.625
	1800	56	\$482	\$600	OF.50X04W01	0.98	0.78	72.0	17.4	10.315	0.625
	1200	56	\$612	\$730	OF.50X06W01	0.99	0.79	72.0	21.2	10.709	0.625
0.75	3600	56	\$482	\$600	OF.75X02W01	1.26	1.01	72.0	18.3	10.709	0.625
	1800	56	\$518	\$636	OF.75X04W01	1.34	1.07	75.5	20.3	10.709	0.625
	1200	56H	\$666	\$784	OF.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	\$432	\$550	OF.25X02W01DOE	0.46	0.37	65.6	16.1	10.315	0.625
	1800	56	\$432	\$550	OF.25X04W01DOE	0.53	0.43	69.5	15.7	9.921	0.625
	1200	56	\$568	\$686	OF.25X06W01DOE	0.55	0.44	67.5	17.0	10.315	0.625
0.33	3600	56	\$440	\$558	OF.33X02W01DOE	0.61	0.49	69.5	16.3	10.315	0.625
	1800	56	\$440	\$558	OF.33X04W01DOE	0.67	0.53	73.4	17.4	10.315	0.625
	1200	56	\$580	\$698	OF.33X06W01DOE	0.70	0.56	71.4	18.3	10.315	0.625
0.5	3600	56	\$464	\$582	OF.50X02W01DOE	0.81	0.65	73.4	16.5	10.315	0.625
	1800	56	\$514	\$632	OF.50X04W01DOE	0.86	0.69	78.2	20.3	10.709	0.625
	1200	56	\$644	\$762	OF.50X06W01DOE	0.93	0.75	75.3	21.2	10.709	0.625
0.75	3600	56	\$536	\$654	OF.75X02W01DOE	1.14	0.91	76.8	18.3	10.709	0.625
	1800	56	\$556	\$674	OF.75X04W01DOE	1.15	0.92	81.1	23.4	11.102	0.625
	1200	56H	\$698	\$816	OF.75X06W01DOE	1.26	1.01	81.7	34.4	12.677	0.625
1	3600	56	\$542	\$660	OF00X02W01DOE	1.51	1.21	77.0	19.6	10.709	0.625
	1800	56	\$564	\$684	OF00X04W01DOE	1.57	1.26	83.5	26.2	11.495	0.625
	1200	56H	\$748	\$866	OF00X06W01DOE	1.68	1.34	82.5	38.8	13.071	0.625
1.5	3600	56	\$606	\$724	OF001X02W01DOE	1.85	1.47	84.0	29.3	11.889	0.625
	1800	56H	\$668	\$786	OF001X04W01DOE	2.10	1.68	86.5	36.8	13.071	0.625
2	3600	56H	\$650	\$768	OF002X02W01DOE	2.42	1.94	85.5	36.8	12.677	0.625
	1800	56H	\$742	\$860	OF002X04W01DOE	2.69	2.15	86.5	35.5	12.283	0.625
3	3600	56H	\$894	\$1,012	OF003X02W01DOE	3.59	2.87	85.5	39.9	13.071	0.625
	1800	56H	\$1,254	\$1,372	OF003X04W01DOE	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

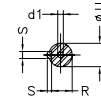
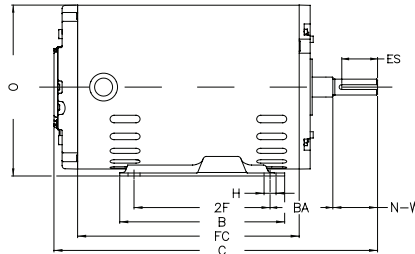
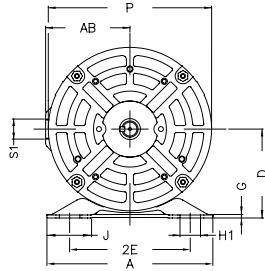
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
0.25	0.18	3520	56	0.98	0.49	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 (l/l/n)	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
		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
2	1.5	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
		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	

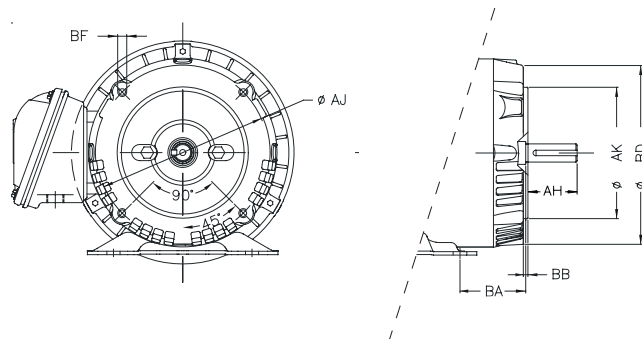
Standard Efficiency

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	10.315	6.299
			4	9.921	5.906
			6	10.315	6.299
	0.5	0.37	2	10.315	6.299
			4	10.709	6.693
			6	10.709	6.693
	0.75	0.55	2	10.709	6.693
			4	11.496	7.480
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	10.315	6.299
			4	10.315	6.299
			6	10.315	6.299
	0.5	0.37	2	10.315	6.299
			4	10.709	6.693
			6	10.709	6.693
	0.75	0.55	2	11.102	7.087
			4	11.102	7.087
56H			6	12.677	8.661
56H	1	0.75	2	10.709	6.693
			4	11.495	7.480
			6	13.071	9.055
	1.5	1.1	2	11.889	7.874
			4	13.071	9.055
			6	12.677	8.661
	2	1.5	2	12.283	8.268
			4	12.283	8.268
			6	13.071	9.055
	3	2.2	2	13.071	9.055
			4	13.071	9.055

"C" Flange Dimensions						
Frame	BA	Flange				
		AJ	AK	BB	BD	AH
56C	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16
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	\$466	\$602	OF.25102W01	4.00	2.00	15.4	9.472
	1800	W56	\$522	\$646	OF.25104W01	4.66	2.33	15.4	9.472
0.33	3600	W56	\$466	\$590	OF.33102W01	5.00	2.50	16.1	9.866
	1800	W56	\$518	\$642	OF.33104W01	6.24	3.12	16.8	9.866
0.5	3600	W56	\$552	\$676	OF.50102W01	6.68	3.34	18.7	10.260
	1800	W56	\$602	\$726	OF.50104W01	8.24	4.12	18.7	10.260
0.75	3600	W56	\$508	\$726	OF.75102W01	9.64	4.82	20.9	10.654
	1800	56	\$766	\$890	OF.75104W01	10.5	5.25	26.5	11.496
1	3600	56	\$674	\$798	OF000102W01	12.8	6.39	26.5	11.496
	1800	56	\$850	\$974	OF000104W01	13.5	6.75	30.9	11.890
1.5	3600	56	\$916	\$1,040	OF001102W01	17.2	8.60	30.9	11.890
	1800	56H	\$1,048	\$1,172	OF001104W01	19.0	9.49	40.1	13.071
2	3600	56H	\$1,086	\$1,210	OF002102W01	21.8	10.9	36.4	12.678
	1800	56H	\$1,154	\$1,278	OF002104W01	21.0	10.5	42.3	13.858
3	3600	56H	\$1,330	\$1,454	OF003102W01	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	\$422	\$528	OF.25102W01DOE	2.50	1.25	17.2	9.866
	1800	W56	\$468	\$574	OF.25104W01DOE	3.20	1.60	16.5	9.866
0.33	3600	W56	\$422	\$602	OF.33102W01DOE	3.20	1.60	19.4	10.260
	1800	W56	\$462	\$568	OF.33104W01DOE	4.20	2.10	17.6	10.260
0.5	3600	W56	\$500	\$604	OF.50102W01DOE	4.80	2.40	19.4	10.260
	1800	W56	\$540	\$646	OF.50104W01DOE	5.50	2.75	19.8	10.654
0.75	3600	56	\$546	\$654	OF.75102W01DOE	6.80	3.40	25.4	11.890
	1800	56	\$804	\$908	OF.75104W01DOE	6.80	3.40	30.9	11.890
1	3600	56	\$612	\$716	OF000102W01DOE	8.60	4.30	29.8	11.890
	1800	56	\$894	\$998	OF000104W01DOE	9.00	4.50	36.4	12.677
1.5	3600	56	\$828	\$934	OF001102W01DOE	13.3	6.65	32.0	12.284
	1800	56H	\$1,102	\$1,206	OF001104W01DOE	13.6	6.80	40.1	13.071
2	3600	56H	\$984	\$1,088	OF002102W01DOE	16.8	8.40	36.4	13.465
	1800	56H	\$1,210	\$1,316	OF002104W01DOE	18.6	9.30	45.2	13.858
3	3600	56H	\$1,204	\$1,308	OF003102W01DOE	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

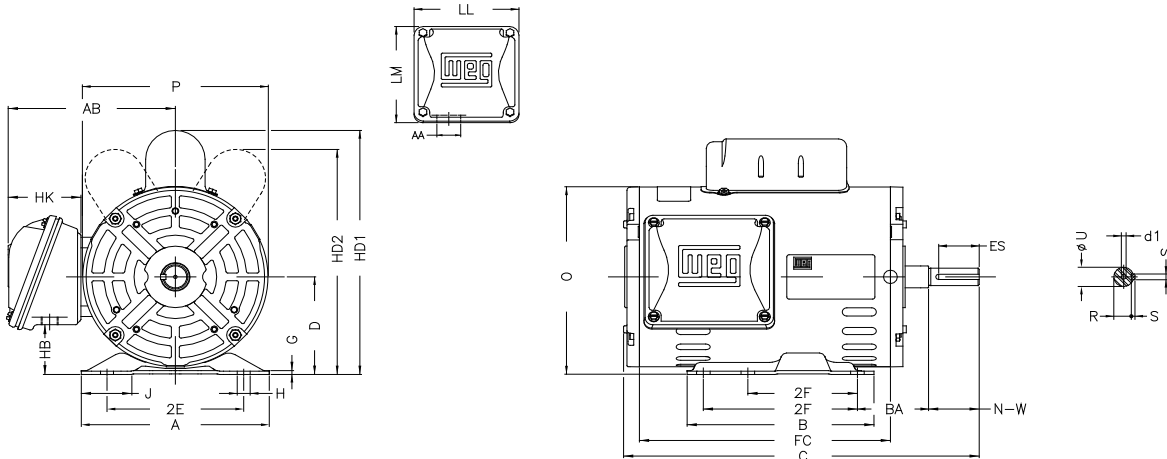
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V							50%	75%	100%	50%	75%	100%
0.25	0.18	3500	W56	4.00	2.00	7.2	300%	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 (l/l/n)	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

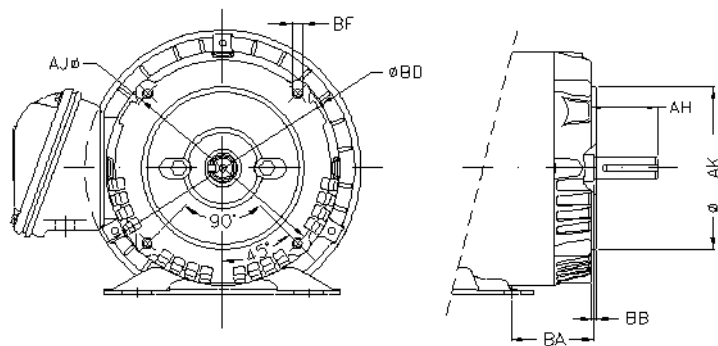
ODP - Mechanical Data



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							6.330	5.709	8.189						6203ZZ	
56	4.874	3.000	2.750	6.535	4.016	3.500	6.723	6.456	8.618	0.187	0.517	1.417	1.874	0.6250	6303ZZ up to 0.75HP 6204ZZ from 1HP and up	6202ZZ
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			6.468				
56	5.874	4.500	6.450	4	UNC3/8"x16	0.157	2.062
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



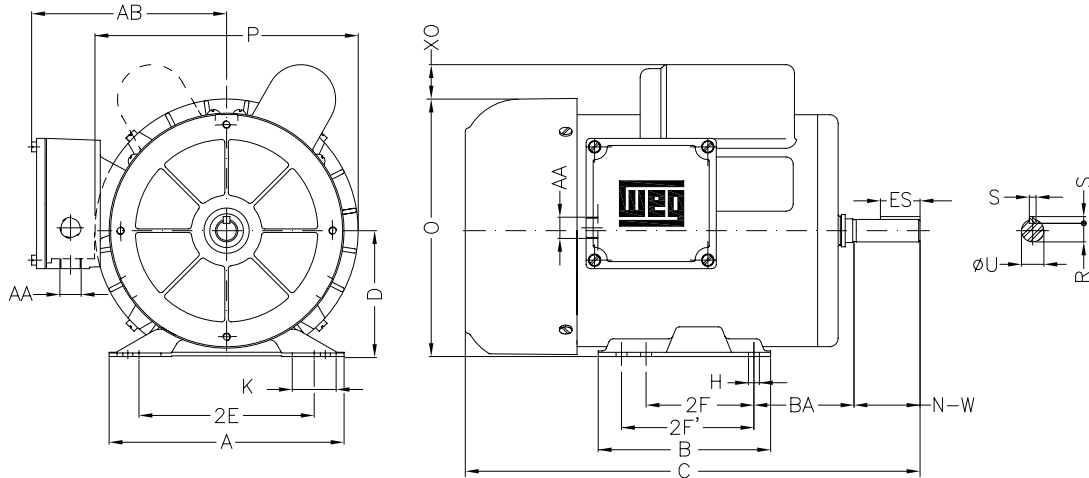
Optional Features

- 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

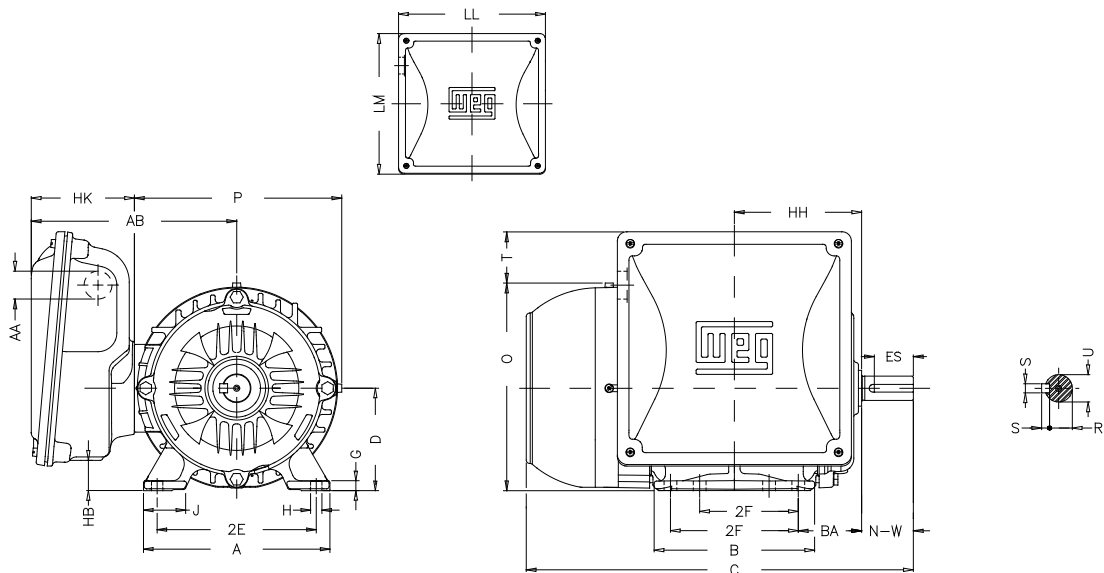


140T Frame and up Single Phase Motors

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													

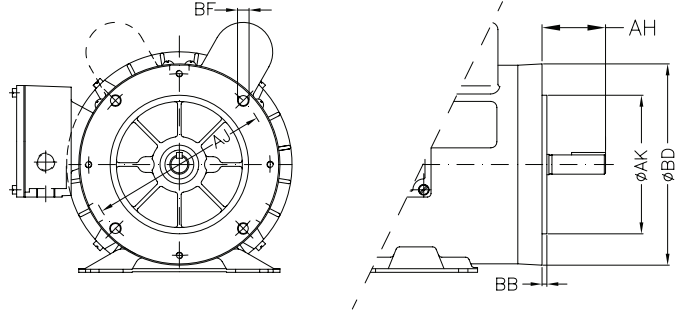


NEMA Frames	Mounting				A	B	C	D	G	J	O	P	T	Keyway			Shaft Extension		AB	AA	Bearings	
	2E	2F	H	BA										S	R	ES	N-W	U			D.E.	N.D.E.
182/4T	7.500	4.500/5.000	0.410	2.750	8.661	6.969	17.012	4.500	0.394	1.614	8.897	8.937	2.128	0.250	0.984	1.969	2.750	1.125	8.110	NPT 1"	6207-ZZ	6206-ZZ
213/5T	8.500	5.500/7.000	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

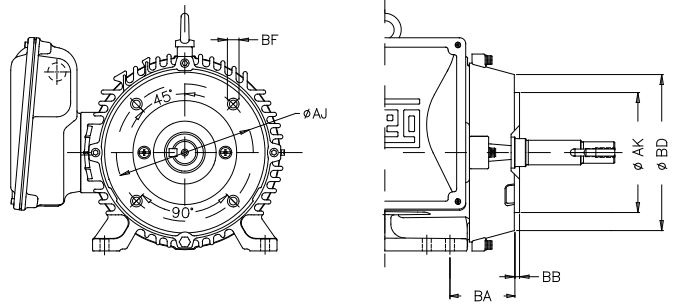
140T Frame and up Single Phase Motors

TEFC - Mechanical Data

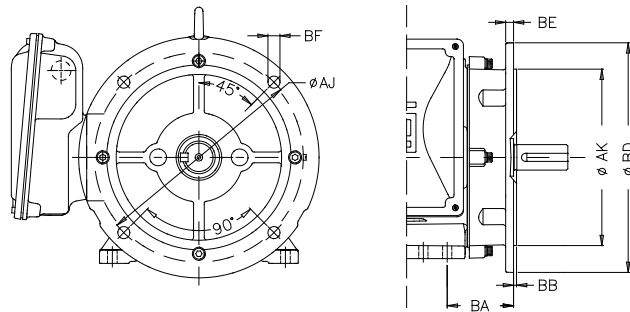
"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		BB	AH
				NUMBER	TAP SIZE		
F143/5T	5.875	4.500	6.535	4	16	0.157	2.125
G143/5T							



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



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



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



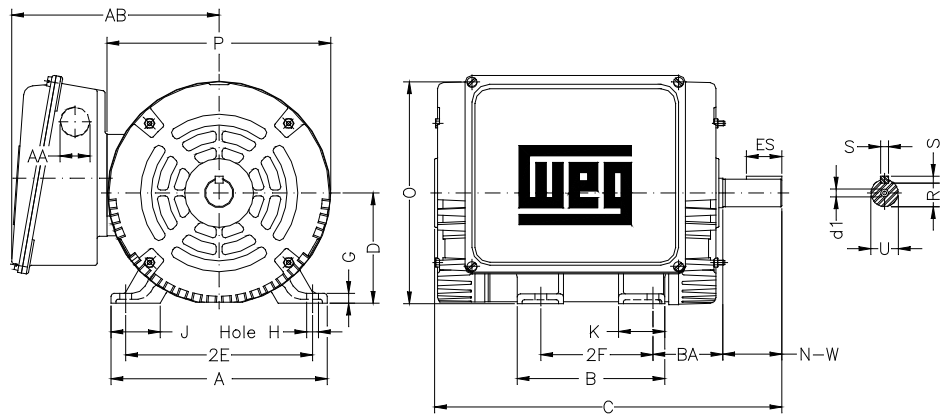
180T Frame and up Single Phase Motors

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	\$1,676	\$1,896	DP003102	15.0	89	14.448
	1800	184T	\$1,676	\$1,896	DP003104	17.5	100	14.870
5	3600	184T	\$1,840	---	DP005102*	21.0	91	14.870
	1800	184T	\$1,840	---	DP005104S*	23.3	115	14.870
7.5	3600	184T	\$2,400	\$2,622	DP007102	30.0	115	14.870
	1800	215T	P.O.A	P.O.A	DP007104	-	147	19.500

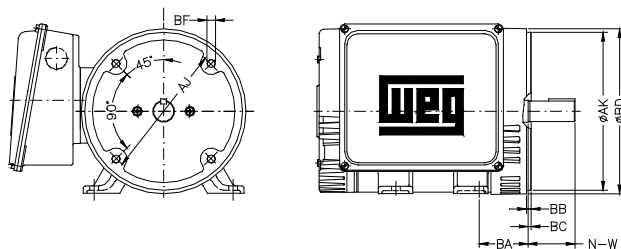
Flange: For C Flange replace 'DP' with 'CP'

Rated Output	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (I _L /I _n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
										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		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	\$1,454	\$1,626	XF.33104	6.50	3.25	32.6	11.41
0.5	1800	B56EX	\$1,566	\$1,738	XF.50104	7.40	3.70	36.8	12.204
0.75	1800	D56EX	\$1,730	\$1,902	XF.75104	11.0	5.50	41.9	13.385
1	1800	D56EX	\$1,890	\$2,060	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	\$1,482	\$1,644	XF.33X04	0.65	0.52	29.5	11.41
0.5	1800	B56EX	\$1,550	\$1,712	XF.50X04	0.81	0.65	33.1	12.204
0.75	1800	B56EX	\$1,614	\$1,778	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

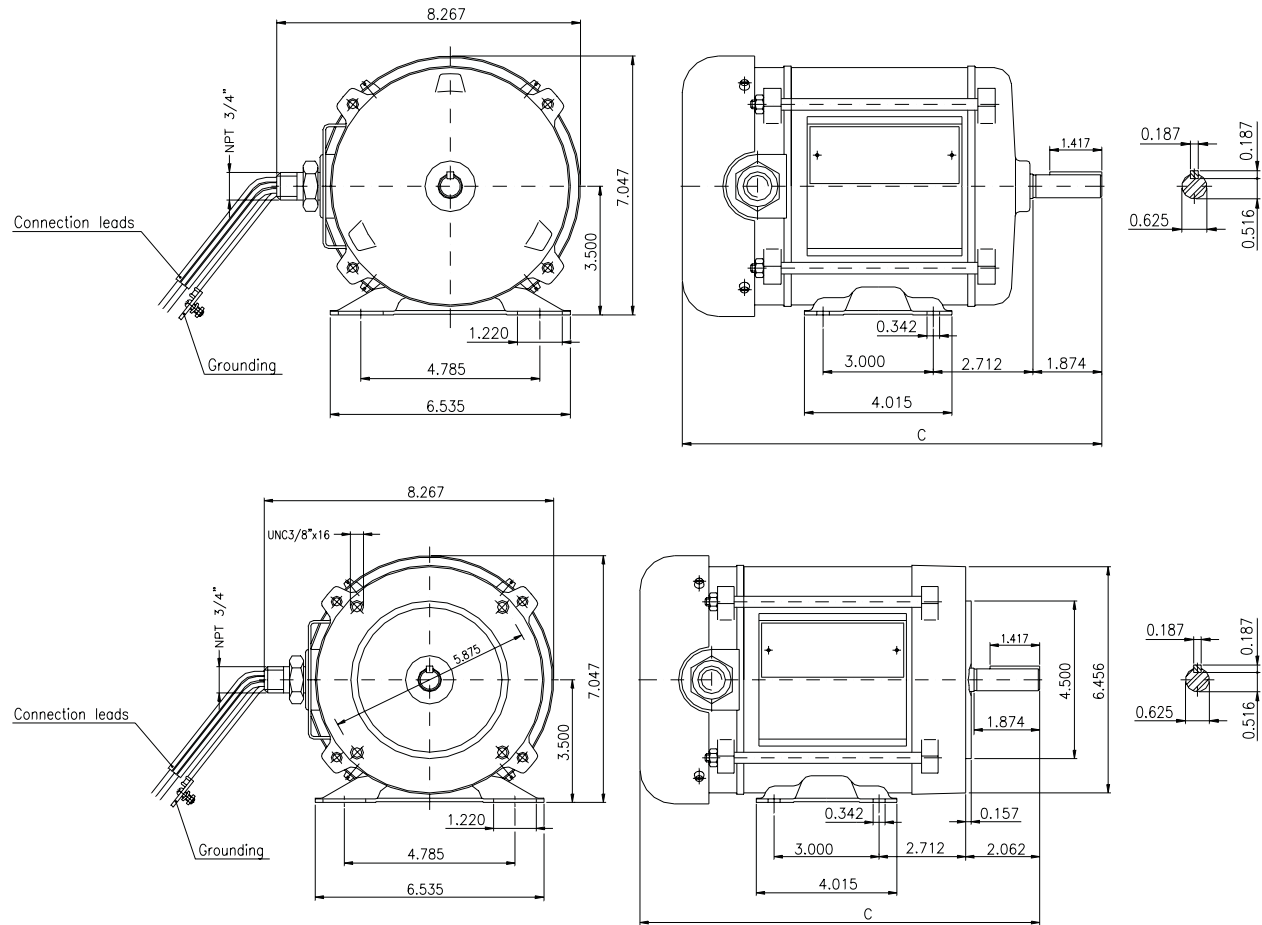
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (I _L /I _n)	Locked rotor torque	Breakdown torque	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			115V	230V						50%	75%	100%	50%	75%	100%
0.33	0.25	1755	A56EX	6.50	3.25	5.4	310%	290%	32.6	1.15	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 (I _L /I _n)	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

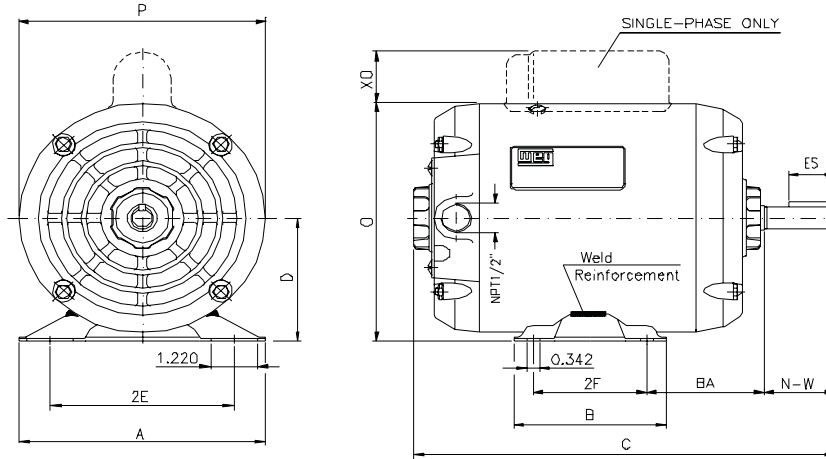
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.5	3600	W56	\$690	\$770	CD.50102W01	7.34	3.67	22.7	10.240
0.75	3600	W56	\$724	\$850	CD.75102W01	11.3	5.67	23.8	10.634
1	3600	W56	\$800	\$942	CD000102W01	14.0	7.01	23.3	11.028
1.5	3600	56	\$860	\$956	CD001102W01	16.2	8.10	26.7	11.815
2	3600	56H	\$896	\$1,036	CD002102W01	19.8	9.88	30.1	12.209
3	3600	56H	\$1,000	\$1,098	CD003102W01	27.8	13.9	35.9	12.996
5	3600	56H	\$1,066	\$1,296	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 (I _L /I _N)	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

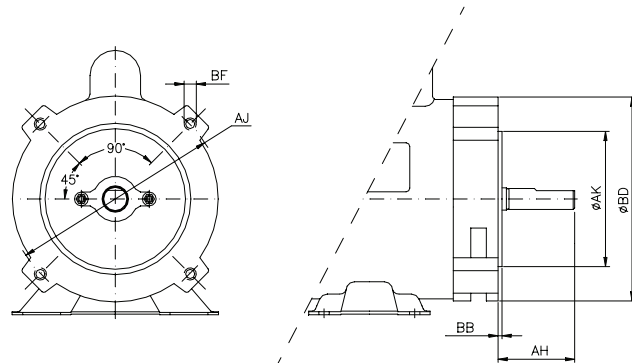
Compressor Duty Motors

ODP - Mechanical Data



NEMA FRAMES	MOUNTING			A	B	C	D	O	P	X0	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				1.382							
56H						6.496		14.571		6.728						6.457	

"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

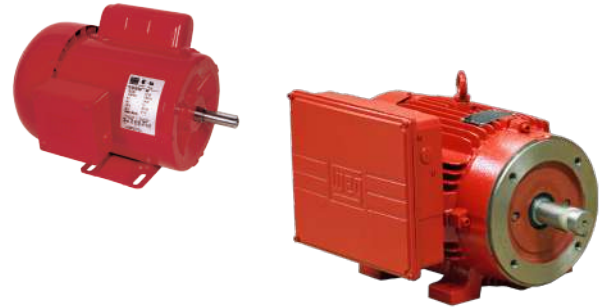


Farm Duty Motors

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

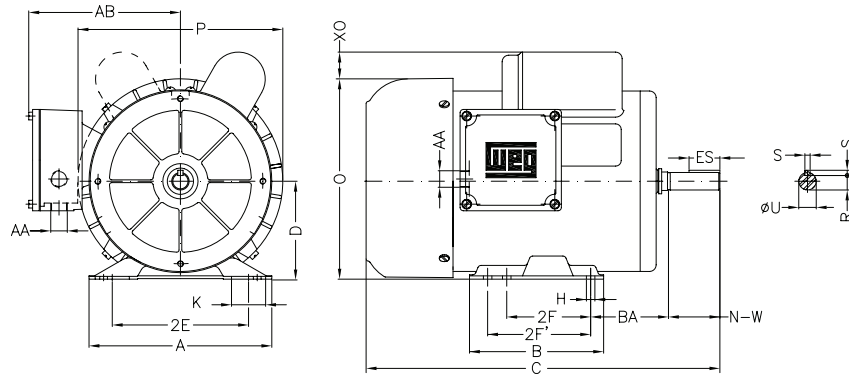
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM					115V	230V		
0.33	1800	B56	\$576	\$700	FD.33104	5.60	2.80	21.6	11.102
0.5	1800	B56	\$602	\$726	FD.50104	7.40	3.70	24.5	11.102
0.75	1800	B56	\$748	\$872	FD.75104	10.6	5.30	27.8	11.102
1	1800	D56	\$756	\$880	FD000104	14.0	7.00	37.9	12.283
	1800	F143T	\$796	\$1,028	FD000104S	14.0	7.00	37.5	14.488
1.5	1800	F56H	\$884	\$1,008	FD001104	17.4	8.70	50.3	13.464
	1800	G145T	\$924	\$1,156	FD001104S	17.4	8.70	50.0	14.882
2	1800	G145T	\$1,114	\$1,346	FD002104	21.0	10.5	52.9	14.882
	1800	G56H	\$1,128	\$1,252	FD002104S	21.0	10.5	50.7	13.858
	1800	W182/4T	\$1,512	\$1,772	FD002104W	20.0	10.0	81.8	17.240
3	1800	W182/4T	\$1,702	\$1,962	FD003104W	29.0	14.5	88.2	17.240
5	1800	184T	\$1,824	\$2,084	FD005104	--	21.4	112	17.050
	1800	182/4T	\$1,912	\$2,134	FD005104W01	--	19.9	115	--
	1800	W213/5TZ	\$2,342	\$2,634	FD005104W	--	21.4	126	21.000
7.5	1800	215T	\$2,862	\$3,154	FD007104	--	33.0	157	19.500
	1800	215TZ	\$2,862	\$3,154	FD007104S	--	33.0	157	19.500
10	1800	215T	\$3,392	\$3,818	FD010104	--	40.0	176	19.500
12.5	1800	215T	\$4,274	\$4,566	FD012104W22	--	48.0	191	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 (li/ln)	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

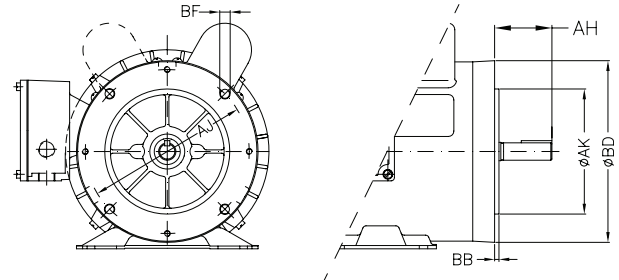
Farm Duty Motors

TEFC - Mechanical Data



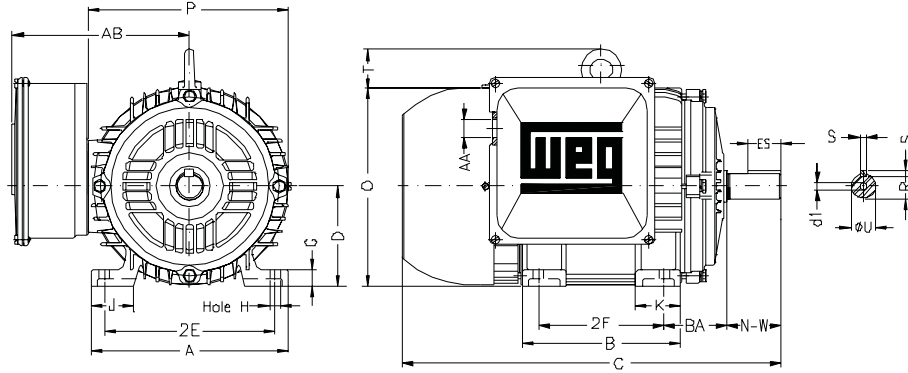
NEMA Frames	Mounting					A	B	C	D	O	P	X0	Keyway			Shaft Extension		AB	AA	Bearings	
	2E	2F	H	H1	BA								S	R	ES	N-W	U			D.E.	N.D.E.
B56	4.875	3.000	0.343	1.220	2.750	6.535	4.016	11.102	3.500	7.165	7.323	1.064	0.187	0.517	1.102	1.874	0.625	5.433	NPT0.5"	6203-ZZ	6202-ZZ
D56							12.283														
F56H							13.464														
G56H							13.858														
F143T	5.500	5.000			2.250		6.498	14.488						0.766	1.417	2.250	0.875		NPT0.75"	6205-ZZ	6203-ZZ
G145T																				14.882	

"C" Flange Dimensions							
NEMA Frames	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							



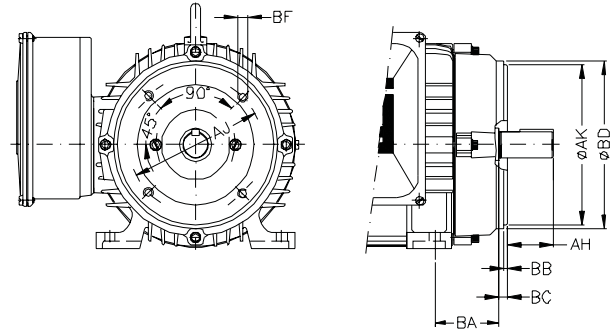
Farm Duty Motors

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		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	8.820	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							

"C" Flange Dimensions								
NEMA Frames	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

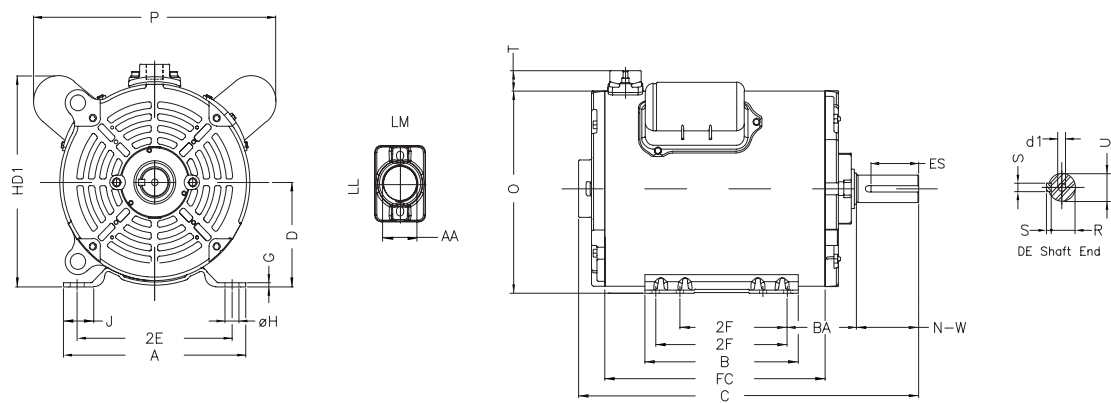
Rated Output		NEMA Frame	List Price	Part Number	Full Load Content	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				230V		
1.5-3	3600	143/5TZ	\$1,580	FDGD003102W01	12.4	40.9	13.555
3-4.5	3600	143/5TZ	TBC	FDGD005102W01	17.9	57.6	15.130
5-7.5	3600	182/4TZ	\$2,224	FDGD007102W01	29.1	82.9	17.070
7.5-10	3600	182/4TZ	\$2,624	FDGD010102W01	39.5	99.2	17.858
10-15	3600	213/5TZ	\$4,042	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 (li/ln)	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

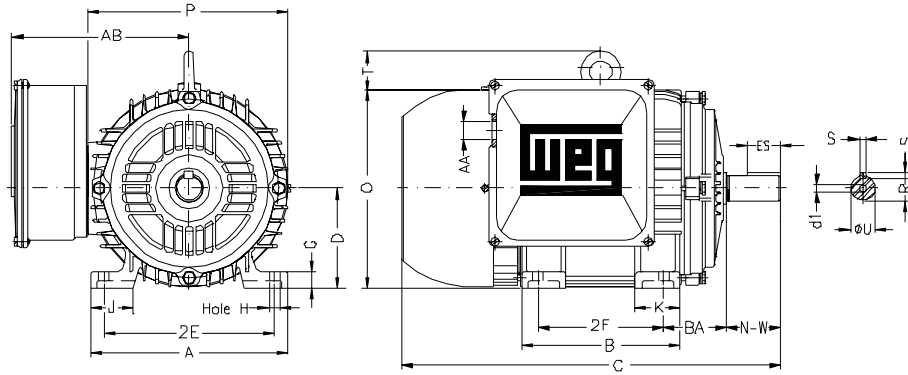


NEMA Frames	2E	J	A	P	2F	B	BA	Shaft End					
								U	d1	N-W	ES	R	S
143/5TZ	5.500	1.732	6.535	10.665	4.000/5.0000	6.496	2.250	0.875	EUNC 1/4" - 20	3.000	1.417	0.771	0.187
182/4TZ	7.500	1.299	8.661	12.36	4.000/5.5000	6.299	2.750	1.125	EUNC 1/4" - 20	3.500	1.969	0.984	0.250
213/5TZ	8.500	1.575	9.449	13.291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

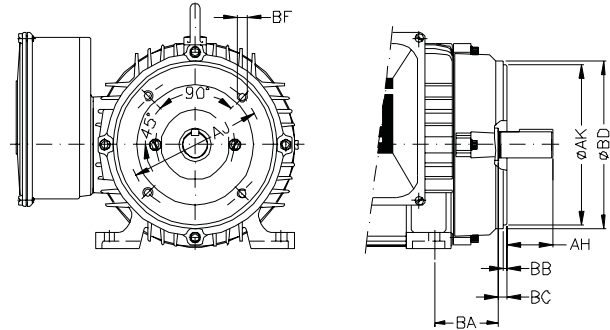
Farm Duty Motors

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		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	8.820	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							

"C" Flange Dimensions								
NEMA Frames	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)
- 104°F (40°C) 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	\$508	JT.33X02W01	.66	0.53	13.5	10.425
	1800	W56J	\$542	JT.33X04W01	.66	0.53	15.2	10.819
0.5	3600	W56J	\$598	JT.50X02W01	.86	0.69	14.3	10.819
	1800	W56J	\$638	JT.50X04W01	.90	0.72	17.0	11.213
0.75	3600	W56J	\$728	JT.75X02W01	1.16	0.93	15.2	10.819
	1800	W56J	\$762	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	\$508	KT.33X02W01	.66	0.53	13.5	9.925
	1800	W56C	\$542	KT.33X04W01	.66	0.53	15.2	10.319
0.5	3600	W56C	\$598	KT.50X02W01	.86	0.69	14.3	10.319
	1800	W56C	\$638	KT.50X04W01	.90	0.72	17.0	10.713
0.75	3600	W56C	\$728	KT.75X02W01	1.16	0.93	15.2	10.319
	1800	W56C	\$762	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	\$548	JT.33X02W01DOE	0.58	0.46	15.0	10.319
	1800	W56J	\$592	JT.33X04W01DOE	0.63	0.50	16.5	11.213
0.5	3600	W56J	\$642	JT.50X02W01DOE	0.79	0.63	17.4	11.213
	1800	W56J	\$778	JT.50X04W01DOE	0.78	0.63	20.9	12.000
0.75	3600	W56J	\$780	JT.75X02W01DOE	1.12	0.90	18.3	11.123
	1800	56J	\$846	JT.75X04W01DOE	1.19	0.96	30.2	12.835
1	3600	W56J	\$920	JT000X02W01DOE	1.5	1.20	20.5	11.606
	1800	56J	\$1,012	JT000X04W01DOE	1.47	1.18	37.9	14.016
1.5	3600	56J	\$996	JT001X02W01DOE	1.87	1.50	34.2	13.622
	1800	56HJ	\$1,168	JT001X04W01DOE	2.02	1.62	37.9	14.016
2	3600	56HJ	\$1,168	JT002X02W01DOE	2.47	1.98	40.1	14.409
	1800	56HJ	\$1,472	JT002X04W01DOE	2.72	2.18	42.3	14.409
3	3600	56HJ	\$1,538	JT003X02W01DOE	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	\$548	KT.33X02W01DOE	0.58	0.46	15.0	10.319
	1800	W56C	\$592	KT.33X04W01DOE	0.63	0.50	16.5	10.713
0.5	3600	W56C	\$642	KT.50X02W01DOE	0.79	0.63	17.4	10.713
	1800	W56C	\$778	KT.50X04W01DOE	0.78	0.63	20.9	11.500
0.75	3600	W56C	\$780	KT.75X02W01DOE	1.12	0.90	18.3	10.713
	1800	56C	\$846	KT.75X04W01DOE	1.19	0.96	30.2	12.323
1	3600	W56C	\$920	KT000X02W01DOE	1.5	1.20	20.5	11.106
	1800	56C	\$1,012	KT000X04W01DOE	1.47	1.18	37.9	13.508
1.5	3600	56C	\$996	KT001X02W01DOE	1.87	1.50	34.2	13.114
	1800	56HC	\$1,168	KT001X04W01DOE	2.02	1.62	37.9	13.504
2	3600	56HC	\$1,168	KT002X02W01DOE	2.47	1.98	40.1	13.898
	1800	56HC	\$1,472	KT002X04W01DOE	2.72	2.18	42.3	13.898
3	3600	56HC	\$1,538	KT003X02W01DOE	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 (l/l/n)	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

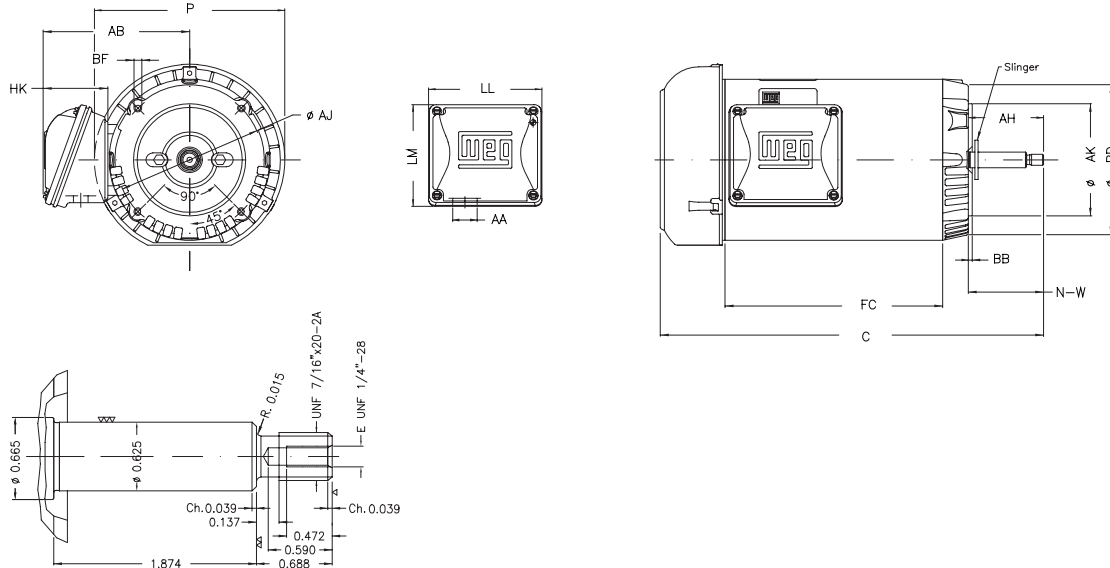
Three Phase - Keyed or Threaded Shaft - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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

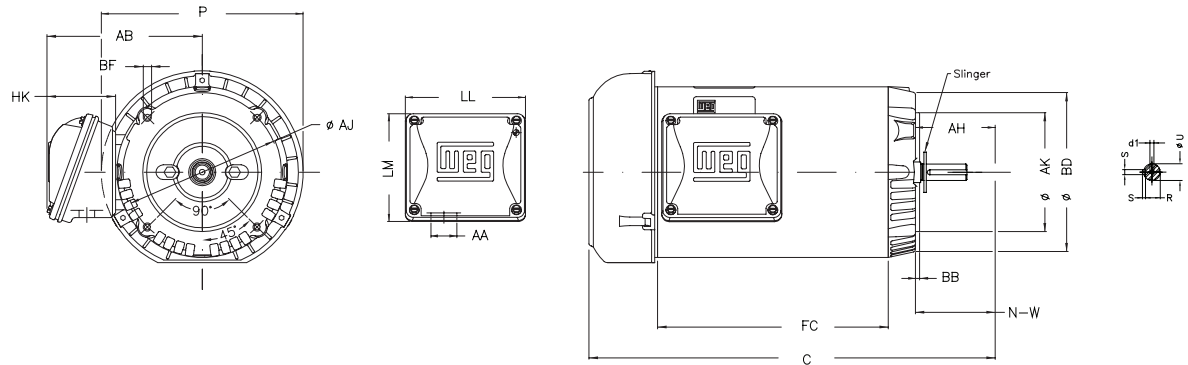
Three Phase - Threaded Shaft - Premium Efficiency

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														
56HC		5.873	2.629	4.563	4.090	7.638														

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)
- 104°F (40°C) 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	\$440	J0.33X02W01	0.68	0.55	13.0	9.972
0.5	3600	W56J	\$520	J0.50X02W01	0.97	0.77	13.9	10.555
0.75	3600	W56J	\$630	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	\$440	K0.33X02W01	0.68	0.55	13.0	9.472
0.5	3600	W56C	\$520	K0.50X02W01	0.97	0.77	13.9	9.866
0.75	3600	W56C	\$630	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	\$462	J0.33X02W01DOE	0.62	0.50	13.0	9.972
0.5	3600	W56J	\$546	J0.50X02W01DOE	0.88	0.71	13.9	10.555
0.75	3600	W56J	\$662	J0.75X02W01DOE	1.18	0.95	16.1	10.949
1	3600	W56J	\$770	J000X02W01DOE	1.63	1.30	18.3	11.343
1.5	3600	W56J	\$844	J0001X02W01DOE	2.11	1.69	23.8	11.941
2	3600	56J	\$986	J0002X02W01DOE	2.42	1.94	36.8	13.189
3	3600	56J	\$1,300	J0003X02W01DOE	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	\$462	K0.33X02W01DOE	0.62	0.50	13.0	9.472
0.5	3600	W56C	\$546	K0.50X02W01DOE	0.88	0.71	13.9	9.866
0.75	3600	W56C	\$662	K0.75X02W01DOE	1.18	0.95	16.1	10.260
1	3600	W56C	\$770	K000X02W01DOE	1.63	1.30	18.3	10.654
1.5	3600	W56C	\$844	K0001X02W01DOE	2.11	1.69	23.8	11.441
2	3600	56C	\$986	K0002X02W01DOE	2.42	1.94	36.8	12.677
3	3600	56C	\$1,300	K0003X02W01DOE	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 (l/l/n)	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

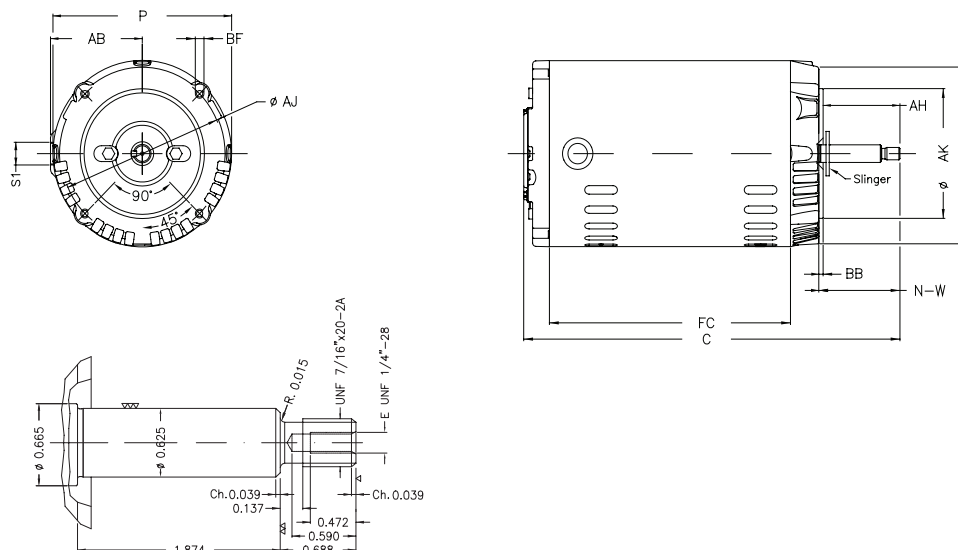
Three Phase - Keyed or Threaded Shaft - Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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

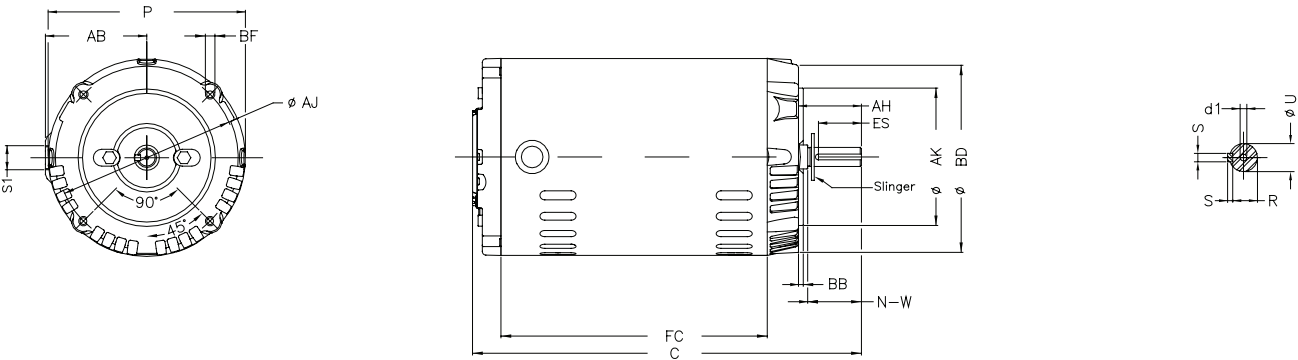
Three Phase - Threaded Shaft - Premium Efficiency

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	DE	NDE
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), 40°C 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	\$534	JT.33102W01	5.20	2.60	19.1	11.606
	1800	W56J	\$556	JT.33104W01	6.00	3.00	18.3	12.000
0.5	3600	W56J	\$570	JT.50102W01	7.0	3.5	20.2	12.000
	1800	W56J	\$586	JT.50104W01	8.0	4.0	20.3	12.394
0.75	3600	56J	\$694	JT.75102W01	8.0	4.0	24.7	14.402
	1800	56J	\$710	JT.75104W01	10.6	5.3	27.0	14.795
1	3600	56J	\$818	JT000102W01	10.2	5.10	27.9	14.795
	1800	56J	\$958	JT000104W01	13.6	6.8	32.8	15.189
1.5	3600	56J	\$888	JT001102W01	13.2	6.6	32.6	15.583
	1800	56HJ	\$1,110	JT001104W01	14.96	7.48	43.0	16.370
2	3600	56HJ	\$1,070	JT002102W01	17.4	8.70	36.9	15.583
	1800	56HJ	\$1,204	JT002104W01	20.0	10.0	46.3	17.157
3	3600	56HJ	\$1,340	JT003102W01	---	13.2	42.6	16.764

Single Phase - Keyed Shaft - Standard Efficiency

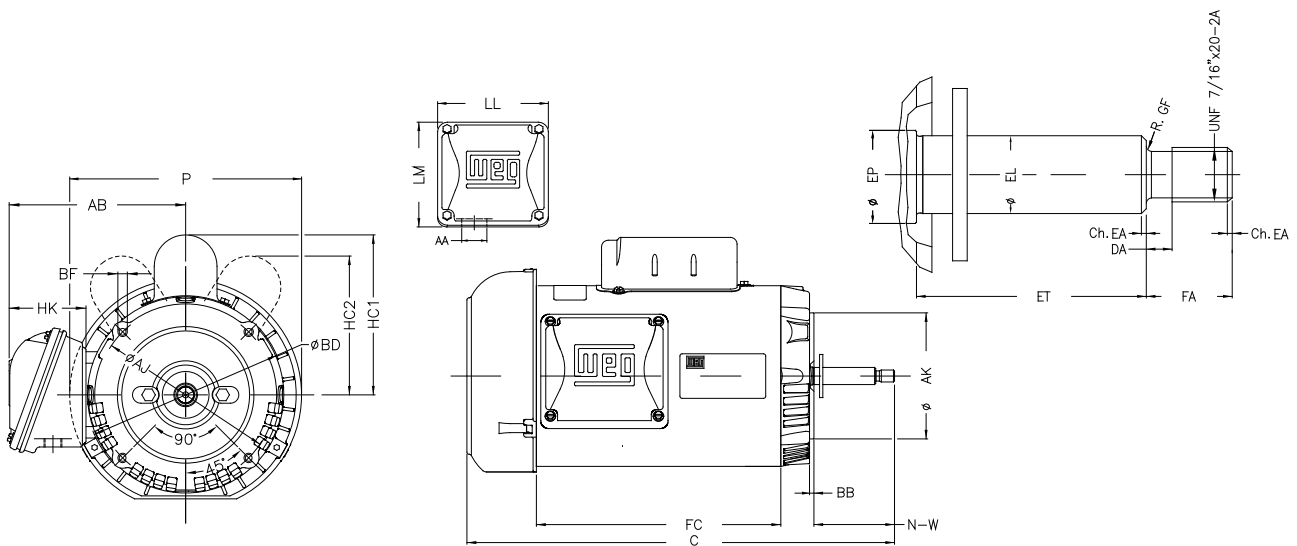
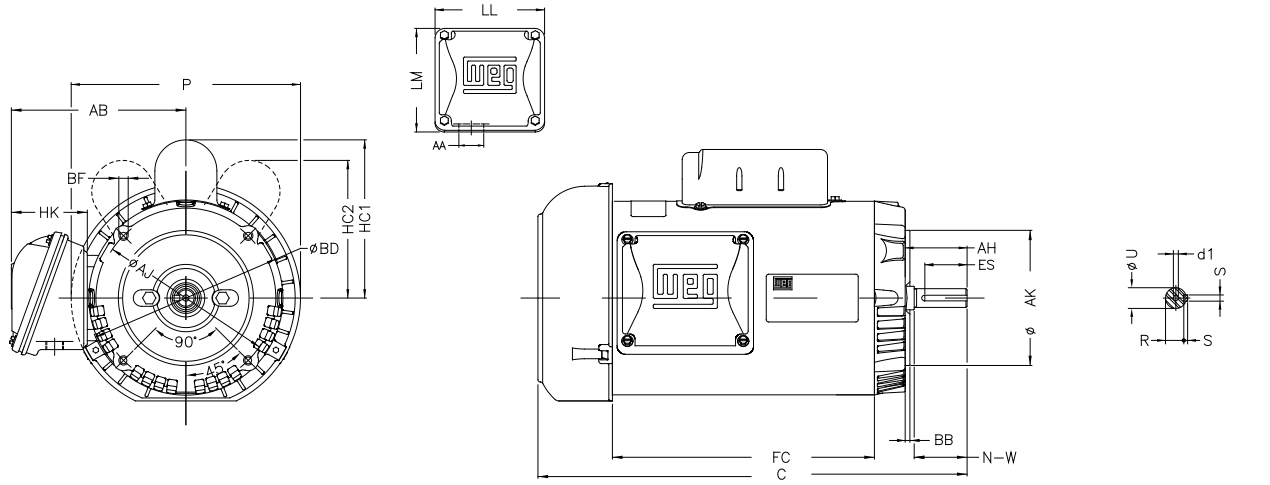
Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)
HP	RPM				115V	230V		
0.33	3600	W56C	\$534	KT.33102W01	5.20	2.60	19.1	11.106
	1800	W56C	\$556	KT.33104W01	6.00	3.00	18.3	11.500
0.5	3600	W56C	\$570	KT.50102W01	7.0	3.5	20.2	11.500
	1800	W56C	\$586	KT.50104W01	8.0	4.0	20.3	11.894
0.75	3600	56C	\$694	KT.75102W01	8.0	4.0	24.7	12.720
	1800	56C	\$710	KT.75104W01	10.6	5.3	27.0	13.114
1	3600	56C	\$818	KT000102W01	10.2	5.10	28.0	13.144
	1800	56C	\$958	KT000104W01	13.6	6.8	32.8	13.901
1.5	3600	56C	\$888	KT001102W01	13.2	6.6	32.6	14.296
	1800	56HC	\$1,110	KT001104W01	14.96	7.48	43.0	15.083
2	3600	56HC	\$1,070	KT002102W01	17.4	8.70	36.9	14.296
	1800	56HC	\$1,204	KT002104W01	20.0	10.0	46.3	15.870
3	3600	56HC	\$1,340	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 (lI/ln)	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





Pump Motors

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	\$452	J0.33102W01	5.0	2.5	16.6	10.366
0.5	3600	W56J	\$528	J0.50102W01	6.6	3.3	19.2	10.760
0.75	3600	W56J	\$580	J0.75102W01	9.6	4.8	21.6	11.154
1	3600	56J	\$688	J0000102W01	12.8	6.4	25.9	11.496
1.5	3600	56J	\$750	J0001102W01	17.3	8.63	30.4	11.890
2	3600	56HJ	\$946	J0002102W01	21.8	10.9	37.7	12.678
3*	3600	56HJ	\$1,194	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	\$476	J0.33102W01DOE	3.2	1.60	19.4	9.866
0.5	3600	W56J	\$554	J0.50102W01DOE	4.8	2.40	19.4	10.260
0.75	3600	56J	\$610	J0.75102W01DOE	6.8	3.40	25.4	10.654
1	3600	56J	\$724	J0000102W01DOE	8.6	4.30	29.8	11.496
1.5	3600	56J	\$788	J0001102W01DOE	12.4	6.20	32.0	11.890
2	3600	56J	\$994	J0002102W01DOE	16.8	8.40	36.4	12.678
3*	3600	56HJ	\$1,254	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	\$452	K0.33102W01	5.0	2.5	16.6	9.866
0.5	3600	W56C	\$528	K0.50102W01	6.6	3.3	19.2	10.260
0.75	3600	W56C	\$580	K0.75102W01	9.6	4.8	21.6	10.654
1	3600	56C	\$688	K0000102W01	12.8	6.4	25.9	11.496
1.5	3600	56C	\$750	K0001102W01	17.3	8.63	30.4	11.890
2	3600	56HC	\$946	K0002102W01	21.8	10.9	37.7	12.678
3*	3600	56HC	\$1,194	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	\$476	K0.33102W01DOE	3.2	1.6	19.4	10.260
0.5	3600	W56J	\$554	K0.50102W01DOE	4.8	2.4	19.4	10.260
0.75	3600	W56J	\$610	K0.75102W01DOE	6.8	3.4	25.4	11.102
1	3600	56J	\$724	K0000102W01DOE	8.6	4.3	29.8	11.890
1.5	3600	56J	\$788	K0001102W01DOE	12.4	6.2	32.0	12.283
2	3600	56J	\$994	K0002102W01DOE	16.8	8.4	36.4	12.677
3*	3600	56J	\$1,254	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 (l/l/n)	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

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	\$1,678	JM000102W22	9.6	4.8	---	51	16.811
	1800	143/5JM	\$1,690	JM000104W22	10.7	5.33	---	51	16.811
	1200	143/5JM	\$2,146	JM000106W22	11.2	5.6	---	110	16.811
1.5	3600	143/5JM	\$1,916	JM001102W22	13.6	6.8	---	53	16.811
	1800	143/5JM	\$1,954	JM001104W22	13.5	6.75	---	71	16.811
	1200	182/4JM	\$3,744	JM001106W22	---	8.5	4.25	132	18.543
2	3600	143/5JM	\$2,022	JM002102W22	18	9	---	56	16.811
	1800	143/5JM	\$2,010	JM002104W22	18.3	9.13	---	71	16.811
	1200	182/4JM	\$3,892	JM002106W22	---	10.0	5.0	132	18.543
3	3600	143/5JM	\$2,194	JM003102W22	25	12.5	---	73	16.811
	1800	182/4JM	\$2,696	JM003104W22	27.6	13.8	---	105	18.543
	1200	213/5JM	\$4,330	JM003106W22	---	13.4	6.68	135	24.212
5	3600	182/4JM	\$3,188	JM005102W22	---	19.0	9.5	108	18.543
	1800	182/4JM	\$3,282	JM005104W22	---	21.4	10.7	118	18.543
	1200	213/5JM	\$4,842	JM005106W22	---	20.7	10.4	169	24.212
7.5	3600	213/5JM	\$4,830	JM007102W22	---	28.3	14.1	168	24.212
	3600	182/4JM	\$4,330	JM007102W22184	---	28.2	14.1	115	18.543
	1800	213/5JM	\$4,650	JM007104W22	---	30.5	15.2	180	24.212
10	3600	213/5JM	\$5,050	JM010102W22	---	38.8	19.4	165	24.212
	1800	213/5JM	\$4,936	JM010104W22	---	40.8	20.4	191	24.212

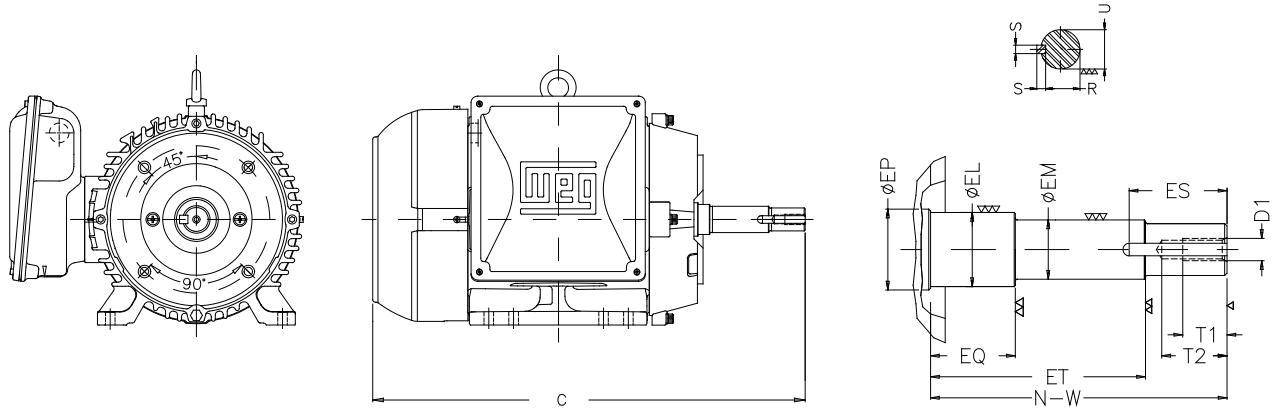
Flange: For JP Type Replace 'JM' with 'JP'

Three Phase - Keyed or Threaded Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor Current (l/l/n)	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	7.250	8.500	0.250	8.858		UNC 0.5"x13
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							

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)
- 104°F (40°C) 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	\$920	\$938	JM000X02NPW01	1.44	1.15	78.5	26.2	15.709	18.780
	1800	143/5 JM or JP	\$902	\$920	JM000X04NPW01	1.47	1.18	85.5	37.9	16.102	19.173
	1200	143/5 JM or JP	\$1,078	\$1,100	JM000X06NPW01	1.66	1.26	80.0	35.9	15.709	19.173
1.5	3600	143/5 JM or JP	\$1,028	\$1,048	JM001X02NPW01	1.87	1.50	84.0	34.2	15.709	18.780
	1800	143/5 JM or JP	\$1,014	\$1,034	JM001X04NPW01	2.02	1.62	86.5	37.9	16.102	19.173
	1200	182/4 JM or JP	\$1,382	\$1,408	JM001X06NPW01	2.27	1.78	85.5	71.0	18.622	20.906
2	3600	143/5 JM or JP	\$1,124	\$1,146	JM002X02NPW01	2.47	1.98	85.5	40.1	16.496	19.567
	1800	143/5 JM or JP	\$1,050	\$1,072	JM002X04NPW01	2.72	2.18	86.5	42.3	16.496	19.567
	1200	182/4 JM or JP	\$1,536	\$1,566	JM002X06NPW01	3.15	2.40	86.5	80.5	19.409	21.693
3	3600	143/5 JM or JP	\$1,150	\$1,174	JM003X02NPW01145JM	3.51	2.81	86.5	48.1	16.496	19.567
	3600	182/4 JM or JP	\$1,272	\$1,298	JM003X02NPW01	3.67	2.94	86.5	63.5	17.835	20.906
	1800	182/4 JM or JP	\$1,264	\$1,288	JM003X04NPW01	3.81	3.05	89.5	80.3	19.409	22.480
	1200	213/5 JM or JP	\$2,078	\$2,120	JM003X06NPW01	4.26	3.34	87.5	101	20.039	24.291
5	3600	182/4 JM or JP	\$1,408	\$1,436	JM005X02NPW01	5.90	4.72	88.5	78.5	19.409	22.480
	1800	182/4 JM or JP	\$1,394	\$1,422	JM005X04NPW01	6.49	5.19	89.5	71.4	19.409	22.480
	1200	213/5 JM or JP	\$2,576	\$2,628	JM005X06NPW01	7.08	5.39	87.5	122	20.433	25.079
7.5	3600	182/4 JM or JP	\$1,834	\$1,870	JM007X02NPW01184JM	8.57	6.86	89.5	79.4	18.622	21.693
	3600	213/5 JM or JP	\$2,106	\$2,148	JM007X02NPW01	8.67	6.94	89.5	133	21.220	25.079
	1800	213/5 JM or JP	\$1,952	\$1,990	JM007X04NPW01	9.07	7.26	91.7	120	20.039	23.898
	1200	254/6 JM or JP	\$3,836	\$3,912	JM007X06NPW01	10.4	7.98	89.5	179	24.055	26.929
10	3600	213/5 JM or JP	\$2,378	\$2,424	JM010X02NPW01	11.5	9.20	90.2	161	22.795	26.654
	1800	213/5 JM or JP	\$2,354	\$2,402	JM010X04NPW01	12.2	9.76	91.7	130	20.433	24.291
	1200	254/6 JM or JP	\$4,184	\$4,268	JM010X06NPW01	14.0	11.0	89.5	196	24.055	27.717
15	3600	213/5 JM or JP	\$2,830	\$2,886	JM015X02NPW01215JM	17.0	13.6	91.0	154	22.795	26.654
	3600	254/6 JM or JP	\$3,400	\$3,468	JM015X02NPW01	17.4	13.9	91.0	175	24.055	26.929
	1800	254/6 JM or JP	\$3,338	\$3,404	JM015X04NPW01	18.2	14.6	92.4	197	24.055	26.929
20	3600	254/6 JM or JP	\$4,156	\$4,240	JM020X02NPW01	22.7	18.2	91.0	211	24.843	27.717
	1800	254/6 JM or JP	\$3,898	\$3,976	JM020X04NPW01	24.7	19.8	93.0	227	24.843	27.717
25	3600	254/6 JM or JP	\$4,904	\$5,002	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

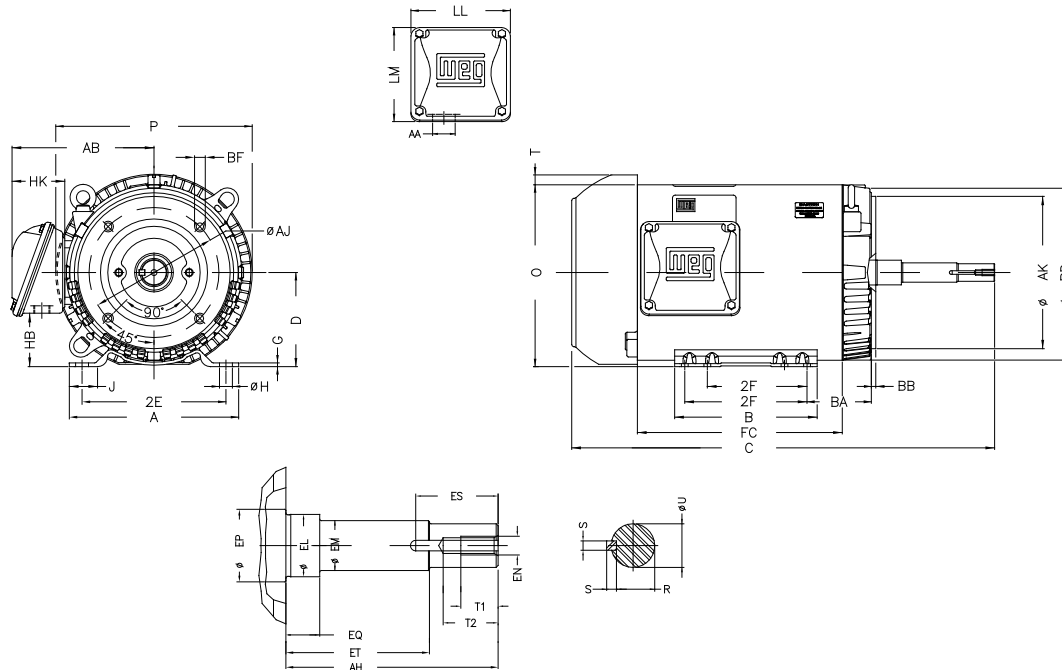
W01 JM & JP Rolled Steel - NEMA Premium

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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	2.22	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
5	3.7	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
		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
7.5	5.5	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
		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
10	7.5	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
		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
15	11	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
		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
20	15	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
		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		2.784			1.299	
213/5JM	8.500	5.500/7.000	9.449	1.377	7.973	7.953	4.250	5.250	0.167	2.982	3.022	0.406	1.575	5.551
254/6JM	10.000	8.252/10.000	11.417	1.732	9.448	11.417	4.750	6.250		3.631			1.693	

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		2.784	2.629		1.299	
213/5JM	8.500	5.500/7.000	9.449	1.377	7.973	7.953	4.250	5.250	0.167	2.982	3.022	0.406	1.575	5.551
254/6JM	10.000	8.252/10.000	11.417	1.732	9.448	11.417	4.750	6.250		3.631	3.645		1.693	

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							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	1.250	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)
- 104°F (40°C) 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	\$1,146	\$1,168	JM000X02NPW22	1.44	1.15	81.5	36.4	15.304	18.365
	1800	143/5 JM or JP	\$1,100	\$1,122	JM000X04NPW22	1.41	1.13	85.5	40.8	15.304	18.365
	1200	143/5 JM or JP	\$1,232	\$1,266	JM000X06NPW22	1.73	1.38	82.5	52.9	15.304	18.365
1.5	3600	143/5 JM or JP	\$1,190	\$1,206	JM001X02NPW22	1.96	1.57	84.0	40.8	15.304	18.365
	1800	143/5 JM or JP	\$1,190	\$1,214	JM001X04NPW22	2.03	1.62	86.5	48.5	15.304	18.365
	1200	182/4 JM or JP	\$1,734	\$1,784	JM001X06NPW22	2.54	2.03	87.5	70.3	17.020	20.395
2	3600	143/5 JM or JP	\$1,246	\$1,276	JM002X02NPW22	2.56	2.05	85.5	51.8	15.304	18.365
	1800	143/5 JM or JP	\$1,246	\$1,270	JM002X04NPW22	2.61	2.09	86.5	50.7	15.304	18.365
	1200	182/4 JM or JP	\$2,070	\$1,872	JM002X06NPW22	3.23	2.58	88.5	87.5	17.020	20.395
3	3600	182/4 JM or JP	\$1,494	\$1,528	JM003X02NPW22145JM	3.71	2.97	86.5	51.8	15.304	18.365
	3600	182/4 JM or JP	\$1,716	\$1,754	JM003X02NPW22	3.63	2.90	86.5	88.2	17.020	20.395
	1800	182/4 JM or JP	\$1,604	\$1,636	JM003X04NPW22	3.88	3.10	89.5	90.4	17.020	20.395
	1200	213/5 JM or JP	\$2,526	\$2,596	JM003X06NPW22	4.41	3.53	89.5	121	20.174	24.046
5	3600	182/4 JM or JP	\$1,776	\$1,810	JM005X02NPW22	5.90	4.72	88.5	88.2	17.020	20.395
	1800	182/4 JM or JP	\$1,870	\$1,908	JM005X04NPW22	6.45	5.16	89.5	94.8	17.020	20.395
	1200	213/5 JM or JP	\$3,062	\$3,152	JM005X06NPW22	6.83	5.46	89.5	162	20.174	24.046
7.5	3600	182/4 JM or JP	\$2,418	\$2,466	JM007X02NPW22184JM	8.76	7.01	89.5	92.6	17.020	20.395
	3600	213/5 JM or JP	\$2,748	\$2,748	JM007X02NPW22	8.76	7.01	89.5	139	20.174	24.046
	1800	213/5 JM or JP	\$2,346	\$2,392	JM007X04NPW22	9.00	7.20	91.7	154	20.174	24.046
	1200	254/6 JM or JP	\$4,428	\$4,578	JM007X06NPW22	9.48	7.58	91.0	262	26.102	28.376
10	3600	213/5 JM or JP	\$2,890	\$2,946	JM010X02NPW22	11.6	9.28	90.2	163	20.174	24.046
	1800	213/5 JM or JP	\$2,748	\$2,804	JM010X04NPW22	12.4	9.92	91.7	172	20.174	24.046
	1200	254/6 JM or JP	\$5,036	\$5,136	JM010X06NPW22	12.9	10.3	91.0	289	26.102	28.376
15	3600	213/5 JM or JP	\$4,040	\$4,122	JM015X02NPW22215JM	17.0	13.6	91.0	163	20.174	24.046
	3600	254/6 JM or JP	\$4,814	\$4,910	JM015X02NPW22	17.3	13.8	91.0	236	26.102	28.376
	1800	254/6 JM or JP	\$4,220	\$4,304	JM015X04NPW22	18.0	14.4	92.4	251	26.102	28.376
	1200	284/6 JM or JP	\$7,616	\$7,854	JM015X06NPW22	17.9	14.3	91.7	379	28.700	31.575
20	3600	254/6 JM or JP	\$5,502	\$5,612	JM020X02NPW22	23.3	18.6	91.0	269	26.102	28.376
	1800	254/6 JM or JP	\$5,012	\$5,114	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	\$6,394	\$6,518	JM025X02NPW22256JM	28.5	22.5	91.7	326	26.102	28.376
	3600	284/6 JM or JP	\$7,100	\$7,242	JM025X02NPW22	28.5	22.8	91.7	362	28.700	31.575
	1800	284/6 JM or JP	\$6,126	\$6,250	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	\$7,558	\$7,708	JM030X02NPW22	33.8	27.0	91.7	392	28.700	31.575
	1800	284/6 JM or JP	\$6,810	\$6,946	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	\$9,554	\$9,766	JM040X02NPW22286JM	45.8	36.6	92.4	437	28.700	31.575
	3600	324/6 JM or JP	\$10,746	\$10,960	JM040X02NPW22	45.8	36.6	92.4	547	29.645	34.021
	1800	324/6 JM or JP	\$9,496	\$9,686	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	\$12,204	\$12,448	JM050X02NPW22	56.1	44.9	93.0	584	29.645	34.021
	1800	324/6 JM or JP	\$10,570	\$10,780	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	\$13,472	\$14,316	JM060X02NPW22326JM	70.2	56.1	93.6	584	29.645	34.021
	3600	364/5 JM or JP	\$19,136	\$20,666	JM060X02NPW22	67.0	53.6	93.6	825	33.031	35.916
	1800	364/5 JM or JP	\$16,470	\$18,864	JM060X04NPW22	68.3	54.6	95.0	869	33.031	35.916
75	3600	364/5 JM or JP	\$20,440	\$20,850	JM075X02NPW22	81.9	65.5	93.6	847	33.031	35.916
	1800	364/5 JM or JP	\$18,702	\$19,076	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

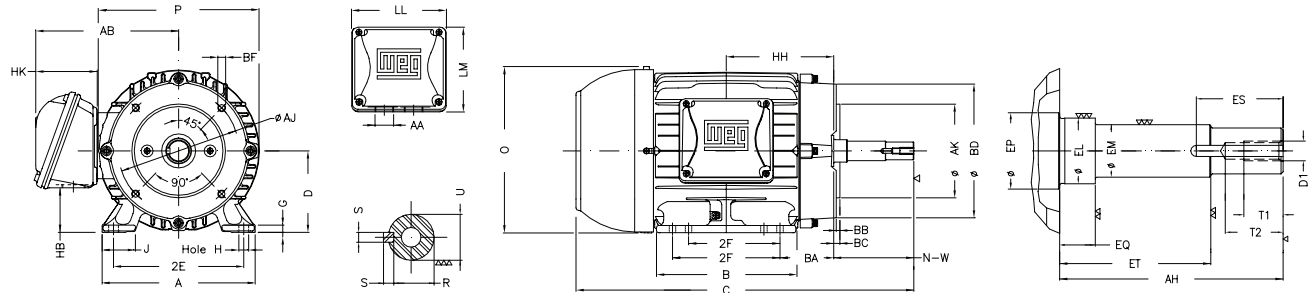
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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
5	3.7	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
		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
7.5	5.5	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
		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
10	7.5	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
		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
15	11	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
		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
20	15	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
25	18.5	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
30	22	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
40	30	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
50	37	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
60	45	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
75	55	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
		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
75	55	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

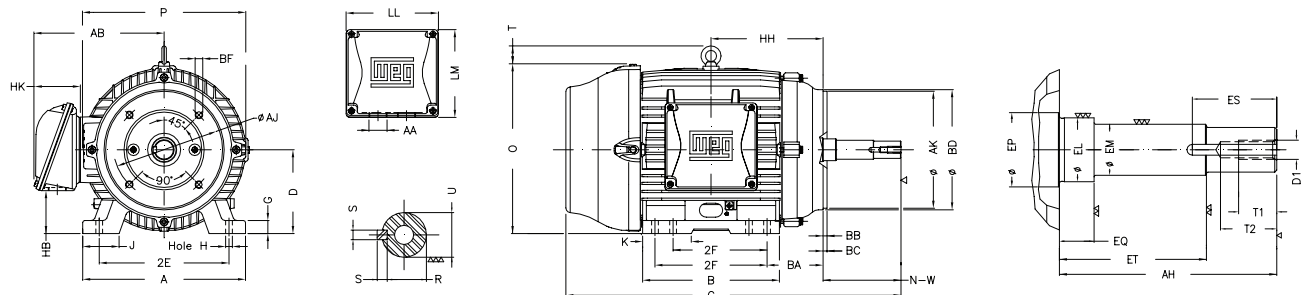
W22 JM & JP Pump Motors - NEMA Premium

TEFC - Mechanical Data

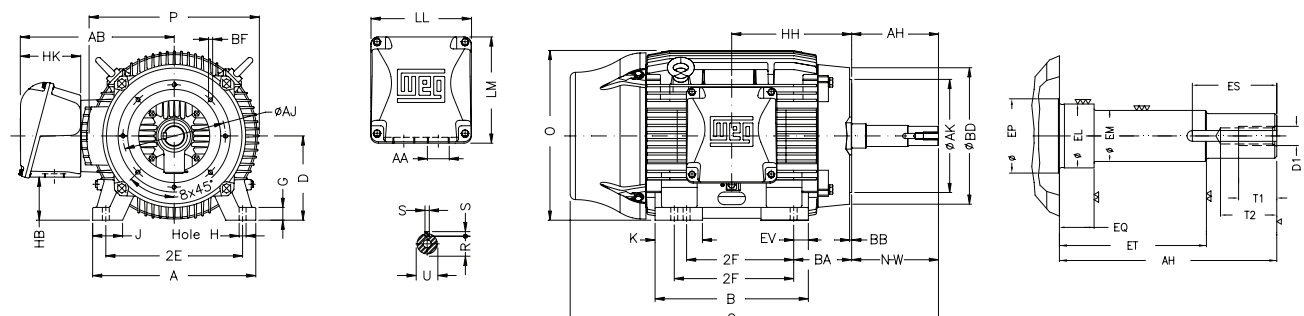
Frames 143/5JM or JP to 213/5JM or JP



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			0.250				17.020						1.250							6307 ZZ	6206 ZZ
213/5JM	3.500	7.252	8.500		8.858	UNC 1/2"x13		20.174													6309 C3	6207 ZZ
254/6JM	4.250							26.102													6309 C3	6209 C3
284/6JM	4.750			0.250	13.593	UNC 5/8"x11	5.250	28.700	5.250	3.006	1.249	1.375	1.750	0.250	1.110	2.480	UNC 1/2"-13	0.984	1.496		6311 C3	6211 C3
324/6JM	5.250	11.000	12.500					29.645													6312 C3	6212 C3
364/5JM	5.875				15.562			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		0.250				20.395						1.250							6307 ZZ	6206 ZZ
213/5JP	3.500	7.252	8.500		8.858	UNC 1/2"x13		24.046													6309 ZZ-C3	6207 ZZ
254/6JP	4.500	7.252						28.736													6309 C3	6209 C3
284/6JP	5.000	11.000		0.250	13.593	UNC 5/8"x11	8.130	31.575	2.382	5.886	1.249	1.375	1.750	0.250	1.110	2.480	UNC 1/2"-13	0.984	1.496		6311 C3	6211 C3
324/6JP	5.500	11.000	12.500					32.525													6312 C3	6212 C3
364/5JP	5.875	11.000			15.562			35.916													6314 C3	6314 C3
404/5JP	6.625	11.000					8	38.911				1.624	1.750	2.125	0.375	1.413					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)
- 104°F (40°C) 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 - 254/6TJM or JP	All	2:1	1000:1	Any
See page 7.6 for details				

Mechanical & Electrical Data is available upon request

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	\$1,188	\$1,212	JM000X02DPSW01	1.35	1.08	80.0	25.4
	1800	143/5 JM or JP	\$1,136	\$1,160	JM000X04DPSW01	1.63	1.30	82.5	30.0
	1200	143/5 JM or JP	\$1,568	\$1,600	JM000X06DPSW01	1.71	1.37	80.0	38.1
1.5	3600	143/5 JM or JP	\$1,200	\$1,228	JM001X02DPSW01	1.88	1.50	82.5	29.3
	1800	143/5 JM or JP	\$1,212	\$1,236	JM001X04DPSW01	2.19	1.75	84.0	35.9
	1200	182/4 JM or JP	\$1,768	\$1,794	JM001X06DPSW01	2.31	1.85	84.0	61.5
2	3600	143/5 JM or JP	\$1,306	\$1,334	JM002X02DPSW01	2.52	2.02	84.0	34.0
	1800	143/5 JM or JP	\$1,278	\$1,302	JM002X04DPSW01	2.91	2.33	84.0	39.0
	1200	182/4 JM or JP	\$2,016	\$2,050	JM002X06DPSW01	3.06	2.45	85.5	71.0
3	3600	143/5 JM or JP	\$1,414	\$1,440	JM003X02DPSW01	3.69	2.95	84.0	37.0
	1800	182/4 JM or JP	\$1,648	\$1,680	JM003X04DPSW01	4.04	3.23	86.5	50.7
	1200	213/5 JM or JP	\$2,510	\$2,560	JM003X06DPSW01	4.31	3.45	86.5	107
5	3600	182/4 JM or JP	\$1,852	\$1,890	JM005X02DPSW01	6.24	4.99	85.5	53.4
	1800	182/4 JM or JP	\$1,874	\$1,914	JM005X04DPSW01	6.47	5.18	87.5	66.4
	1200	213/5 JM or JP	\$2,894	\$2,946	JM005X06DPSW01	6.89	5.51	87.5	109
7.5	3600	182/4 JM or JP	\$2,214	\$2,260	JM007X02DPSW01	8.86	7.09	87.5	62.8
	1800	213/5 JM or JP	\$2,472	\$2,522	JM007X04DPSW01	9.29	7.43	88.5	101
	1200	254/6 JM or JP	\$4,024	\$4,104	JM007X06DPSW01	10.8	8.64	88.5	157
10	3600	213/5 JM or JP	\$2,730	\$2,786	JM010X02DPSW01	12.2	9.76	88.5	103
	1800	213/5 JM or JP	\$2,730	\$2,786	JM010X04DPSW01	12.4	9.92	89.5	116
	1200	254/6 JM or JP	\$4,782	\$4,862	JM010X06DPSW01	14.3	11.4	90.2	184
15	3600	213/5 JM or JP	\$3,528	\$3,596	JM015X02DPSW01	17.5	14.0	89.5	117
	1800	254/6 JM or JP	\$3,992	\$4,072	JM015X04DPSW01	18.5	14.8	91.0	152
	1200	254/6 JM or JP	\$4,252	\$4,338	JM020X02DPSW01	23.7	19.0	90.2	151
20	1800	254/6 JM or JP	\$4,684	\$4,778	JM020X04DPSW01	25.5	20.4	91.0	166
	3600	254/6 JM or JP	\$5,086	\$5,186	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	\$1,018	\$1,038	JM000X02DPW01	1.35	1.08	80.0	25.4	13.701	16.772
	1800	143/5 JM or JP	\$984	\$1,006	JM000X04DPW01	1.63	1.30	82.5	30.0	13.701	16.772
	1200	143/5 JM or JP	\$1,312	\$1,334	JM000X06DPW01	1.71	1.37	80.0	38.1	14.488	16.772
1.5	3600	143/5 JM or JP	\$1,050	\$1,070	JM001X02DPW01	1.88	1.50	82.5	29.3	13.701	17.165
	1800	143/5 JM or JP	\$1,062	\$1,082	JM001X04DPW01	2.19	1.75	84.0	35.9	14.094	18.543
	1200	182/4 JM or JP	\$1,512	\$1,540	JM001X06DPW01	2.31	1.85	84.0	61.5	16.260	19.331
2	3600	143/5 JM or JP	\$1,156	\$1,180	JM002X02DPW01	2.52	2.02	84.0	34.0	13.701	21.575
	1800	143/5 JM or JP	\$1,126	\$1,148	JM002X04DPW01	2.91	2.33	84.0	39.0	14.488	21.969
	1200	182/4 JM or JP	\$1,780	\$1,810	JM002X06DPW01	3.06	2.45	85.5	71.0	17.047	24.843
3	3600	143/5 JM or JP	\$1,262	\$1,286	JM003X02DPW01	3.69	2.95	84.0	37.0	14.094	24.843
	1800	182/4 JM or JP	\$1,458	\$1,488	JM003X04DPW01	4.04	3.23	86.5	50.7	15.472	16.772
	1200	213/5 JM or JP	\$2,298	\$2,342	JM003X06DPW01	4.31	3.45	86.5	107	17.717	17.165
5	3600	182/4 JM or JP	\$1,664	\$1,698	JM005X02DPW01	6.24	4.99	85.5	53.4	15.472	17.559
	1800	182/4 JM or JP	\$1,686	\$1,718	JM005X04DPW01	6.47	5.18	87.5	66.4	16.654	18.543
	1200	213/5 JM or JP	\$2,718	\$2,762	JM005X06DPW01	6.89	5.51	87.5	109	17.717	19.724
7.5	3600	182/4 JM or JP	\$2,026	\$2,066	JM007X02DPW01	8.86	7.09	87.5	62.8	16.260	21.575
	1800	213/5 JM or JP	\$2,282	\$2,328	JM007X04DPW01	9.29	7.43	88.5	101	17.717	21.575
	1200	254/6 JM or JP	\$3,722	\$3,800	JM007X06DPW01	10.8	8.64	88.5	157	21.969	24.843
10	3600	213/5 JM or JP	\$2,528	\$2,578	JM010X02DPW01	12.2	9.76	88.5	103	17.717	24.843
	1800	213/5 JM or JP	\$2,528	\$2,578	JM010X04DPW01	12.4	9.92	89.5	116	17.717	17.165
	1200	254/6 JM or JP	\$4,598	\$4,674	JM010X06DPW01	14.3	11.4	90.2	184	21.969	19.331
15	3600	213/5 JM or JP	\$3,326	\$3,392	JM015X02DPW01	17.5	14.0	89.5	117	18.110	20.118
	1800	254/6 JM or JP	\$3,714	\$3,790	JM015X04DPW01	18.5	14.8	91.0	152	21.969	21.575
20	3600	254/6 JM or JP	\$4,028	\$4,110	JM020X02DPW01	23.7	19.0	90.2	151	21.969	21.575
	1800	254/6 JM or JP	\$4,432	\$4,522	JM020X04DPW01	25.5	20.4	91.0	166	21.969	24.843
25	3600	254/6 JM or JP	\$4,812	\$4,906	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)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkylid 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	\$1,360	\$1,386	JM000X02DPNPSW01	1.38	1.10	80.0	25.4	15.078	18.149
	1800	143/5 JM or JP	\$924	\$1,390	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	\$1,444	\$1,470	JM001X02DPNPSW01	1.85	1.48	84.0	29.3	15.078	18.149
	1800	143/5 JM or JP	\$1,002	\$1,484	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	\$1,568	\$1,600	JM002X02DPNPSW01	2.42	1.94	85.5	36.8	15.471	18.542
	1800	143/5 JM or JP	\$1,030	\$1,564	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	\$1,062	\$1,730	JM003X02DPNPSW01	3.59	2.87	85.5	39.9	15.865	18.936
	1800	182/4 JM or JP	\$1,300	\$2,016	JM003X04DPNPSW01	3.86	3.09	89.5	65.9	18.031	21.101
	1200	213/5 JM or JP	\$2,306	P.O.A	JM003X06DPNPSW01	4.16	3.33	88.5	98.3	19.646	23.504
5	3600	182/4 JM or JP	\$1,448	\$2,268	JM005X02DPNPSW01	6.10	4.88	86.5	58.7	17.637	20.708
	1800	182/4 JM or JP	\$1,474	\$2,294	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	\$1,756	\$2,708	JM007X02DPNPSW01	8.67	6.94	88.5	69.9	18.031	21.101
	1800	213/5 JM or JP	\$2,406	\$3,024	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	\$2,326	\$3,342	JM010X02DPNPSW01	12.0	9.60	89.5	117	20.039	23.898
	1800	213/5 JM or JP	\$2,370	\$3,342	JM010X04DPNPSW01	12.4	9.92	91.7	137	19.646	23.504
	1200	254/6 JM or JP	\$3,722	P.O.A	JM010X06DPNPSW01	13.9	11.1	91.7	209	23.898	26.772
15	3600	213/5 JM or JP	\$2,746	\$4,314	JM015X02DPNPSW01	17.2	13.8	90.2	131	20.827	24.685
	1800	254/6 JM or JP	\$3,460	\$4,884	JM015X04DPNPSW01	18.6	14.9	93.0	175	23.898	26.772
	3600	254/6 JM or JP	\$3,786	\$5,204	JM020X02DPNPSW01	23.8	19.0	91.0	151	23.898	26.772
20	1800	254/6 JM or JP	\$3,934	\$5,736	JM020X04DPNPSW01	25.0	20.0	93.0	198	23.898	26.772
	3600	254/6 JM or JP	\$4,556	\$6,224	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	\$880	\$898	JM000X02DPNPW01	1.38	1.10	80.0	25.4	13.701	16.772
	1800	143/5 JM or JP	\$888	\$906	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	\$944	\$964	JM001X02DPNPW01	1.85	1.48	84.0	29.3	13.701	16.772
	1800	143/5 JM or JP	\$962	\$982	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	\$974	\$992	JM002X02DPNPW01	2.42	1.94	85.5	36.8	14.094	17.165
	1800	143/5 JM or JP	\$990	\$1,010	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	\$1,020	\$1,040	JM003X02DPNPW01	3.59	2.87	85.5	39.9	14.488	17.559
	1800	182/4 JM or JP	\$1,248	\$1,274	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	\$1,390	\$1,418	JM005X02DPNPW01	6.10	4.88	86.5	58.7	16.26	19.331
	1800	182/4 JM or JP	\$1,416	\$1,444	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	\$1,686	\$1,720	JM007X02DPNPW01	8.67	6.94	88.5	69.9	16.654	19.724
	1800	213/5 JM or JP	\$1,964	\$2,002	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	\$2,234	\$2,278	JM010X02DPNPW01	12.0	9.60	89.5	117	18.110	21.969
	1800	213/5 JM or JP	\$2,276	\$2,276	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	\$2,636	\$2,690	JM015X02DPNPW01	17.2	13.8	90.2	131	18.898	22.756
	1800	254/6 JM or JP	\$3,322	\$3,388	JM015X04DPNPW01	18.6	14.9	93.0	175	21.969	24.843
	3600	254/6 JM or JP	\$3,636	\$3,708	JM020X02DPNPW01	23.8	19.0	91.0	151	21.969	24.843
20	1800	254/6 JM or JP	\$3,778	\$3,854	JM020X04DPNPW01	25.0	20.0	93.0	198	21.969	24.843
	3600	254/6 JM or JP	\$4,374	\$4,462	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 (l/l/n)	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
		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
20	15	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

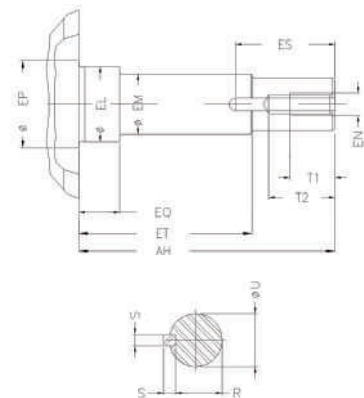
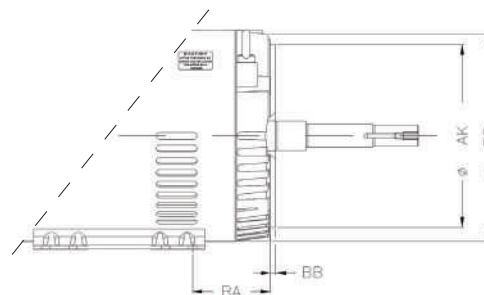
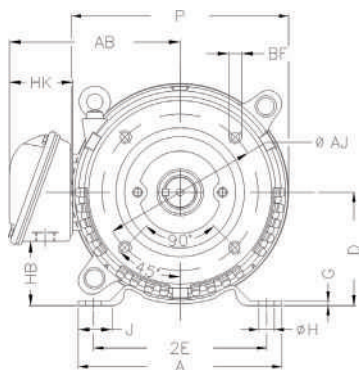
Frame	MOUNTING				A	B	D	NEMA C FLANGE					
	2E	2F	H	BA				AJ	AK	BB	BD	BF TAP	BF NUMBER
143/5JM	5.500	4.000/5.000	0.343	2.250	6.535	6.496	3.500	5.874	4.500	0.157	6.028	UNC 3/8"X16	4
182/4JM	7.500	4.500/5.500	0.406	2.750	8.661	6.299	4.500			0.138	6.496		
213/5JM	8.500	5.500/7.000		3.500	9.449	7.953	5.250	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	0.250			1.110	2.559	1/2"X13	1.024	1.496	6209-ZZ
254/6JM	5.250														

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								1.024		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" (80°C)
- 104°F (40°C) 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	\$5,636	\$5,748	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	\$6,002	\$6,124	JM020X02DPNPS	24.6	19.7	91.0	179	24.098	26.978
	1800	256JM or JP	\$6,614	\$6,748	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	\$7,182	\$7,324	JM025X02DPNPS	29.8	23.8	91.7	225	25.831	28.711
	1800	284JM or JP	\$7,578	\$7,730	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	\$8,948	\$9,128	JM030X02DPNPS	34.7	27.8	92.4	333	26.584	29.464
	1800	286JM or JP	\$8,800	\$8,978	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	\$10,180	\$10,384	JM040X02DPNPS	47.1	37.7	93.0	417	28.077	30.957
	1800	324JM or JP	\$11,296	\$11,520	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	\$12,718	\$12,972	JM050X02DPNPS	59.1	47.3	93.6	478	29.147	32.027
	1800	326JM or JP	\$12,720	\$12,976	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	\$14,554	\$14,848	JM060X02DPNPS	71.0	56.8	93.6	564	30.643	33.523
	1800	364/5JM or JP	\$16,214	\$16,536	JM060X04DPNPSW40	69.9	56.0	95.0	785	32.328	35.208
75	3600	364/5JM or JP	\$19,796	\$20,194	JM075X02DPNPSW40	84.8	67.9	93.6	736	32.328	35.208
	1800	364/5JM or JP	\$18,360	\$18,726	JM075X04DPNPSW40	85.5	68.4	95.0	811	32.328	35.208
100	3600	364/5JM or JP	\$23,254	\$23,718	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	\$5,246	\$5,350	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	\$5,684	\$5,798	JM020X02DPNP	24.6	19.7	91.0	179	22.169	25.049
	1800	256JM or JP	\$6,260	\$6,384	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	\$6,792	\$6,928	JM025X02DPNP	29.8	23.8	91.7	225	23.902	26.782
	1800	284JM or JP	\$7,068	\$7,210	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	\$8,440	\$8,608	JM030X02DPNP	34.7	27.8	92.4	333	24.261	27.141
	1800	286JM or JP	\$8,288	\$8,454	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	\$9,670	\$9,862	JM040X02DPNP	47.1	37.7	93.0	417	25.754	28.634
	1800	324JM or JP	\$10,714	\$10,926	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	\$12,136	\$12,378	JM050X02DPNP	59.1	47.3	93.6	478	26.431	29.311
	1800	326JM or JP	\$12,210	\$12,454	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	\$14,010	\$14,288	JM060X02DPNP	71.0	56.8	93.6	564	27.927	30.807
	1800	364/5JM or JP	\$15,456	\$15,766	JM060X04DPNPW40	69.9	56.0	95.0	785	29.270	32.150
75	3600	364/5JM or JP	\$19,034	\$19,416	JM075X02DPNPW40	84.8	67.9	93.6	736	29.270	32.150
	1800	364/5JM or JP	\$17,596	\$17,948	JM075X04DPNPW40	85.5	68.4	95.0	811	29.270	32.150
100	3600	364/5JM or JP	\$22,490	\$22,940	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

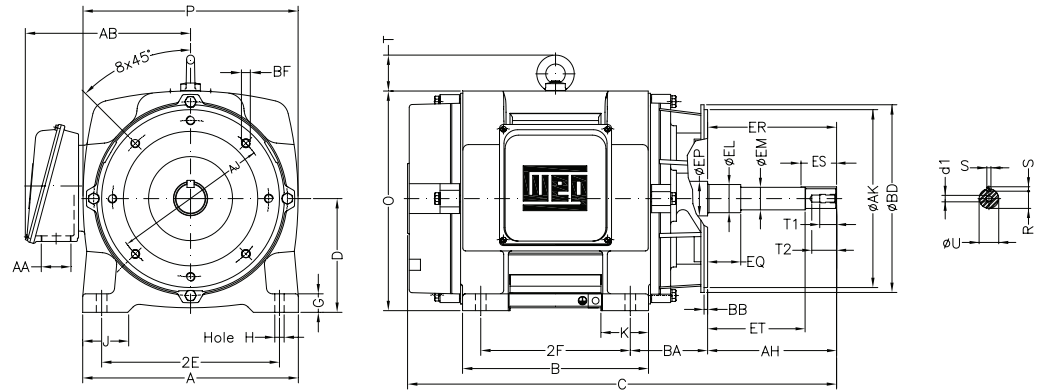
ODP - Horizontal & Vertical - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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
		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
25	18.5	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
		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
30	22	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
		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
40	30	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					26.431		
324JM	12.500	10.500	0.657	5.250	15.160	15.322	27.927	8.000				13.189	14.000	8
326JM		12.000				14.566	29.270							
364/5JM	14.000	11.250/12.250	0.660	0.5880	17.170	15.322	29.270	9.000						

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								2.163							6311-Z-C3	6211-Z-C3
284 JM								2.360							6312-Z-C3	6212-Z-C3
286 JM								2.753							6314-Z-C3	
324 JM																
326 JM																
364/5 JM																

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				13.189	28.634							
324 JP	12.500	10.500	0.657	5.250	15.160	13.070	29.311	8.000				14.000	8	
326 JP		12.000				14.000								
364/5 JP	14.000	11.250/12.250	0.660	5.880	17.170	15.322	32.150	9.000						

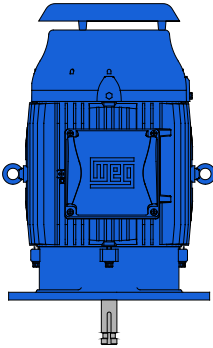
Frame	SHAFT END														BEARINGS	
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1	T1	T2	D.E.	N.D.E.
254 JP	8.130	8.130	2.382	5.886	1.249	1.375	1.750	1.770	0.250	1.110	2.480	1/2"x13	0.984	1.496	6309-Z-C3	6209-Z-C3
256 JP								2.163							6311-Z-C3	6211-Z-C3
284 JP								2.360							6312-Z-C3	6212-Z-C3
286 JP															6314-C3	
324 JP																
326 JP																
364/5 JP					1.624	1.750	2.125	2.753	0.377	1.413			1.100	1.500		

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)
- 104°F (40°C) 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	\$1,822	PB000X04NPW22	1.41	1.13	85.5	40.8	13.421
	1200	145HP	\$2,214	PB000X06NPW22	1.73	1.38	82.5	52.9	14.397
1.5	3600	143HP	\$1,966	PB001X02NPW22	1.96	1.57	84.0	40.8	13.421
	1800	145HP	\$1,966	PB001X04NPW22	2.02	1.62	86.5	48.5	14.397
	1200	182HP	\$2,538	PB001X06NPW22	2.54	2.03	87.5	70.3	15.504
	3600	145HP	\$2,056	PB002X02NPW22	2.56	2.05	85.5	51.8	14.397
2	1800	145HP	\$2,014	PB002X04NPW22	2.69	2.15	86.5	50.7	14.397
	1200	184HP	\$2,744	PB002X06NPW22	3.23	2.58	88.5	87.5	16.504
	3600	182HP	\$2,474	PB003X02NPW22	3.63	2.90	86.5	88.2	15.504
	1800	182HP	\$2,448	PB003X04NPW22	3.91	3.13	89.5	90.4	15.504
3	1200	213HP	P.O.A	PB003X06NPW22	4.41	3.53	89.5	121	18.630
	3600	184HP	\$2,954	PB005X02NPW22	5.90	4.72	88.5	88.2	16.504
	1800	184HP	\$2,916	PB005X04NPW22	6.45	5.16	89.5	94.8	16.504
	1200	215HP	\$4,658	PB005X06NPW22	6.83	5.46	89.5	162	20.126
7.5	3600	213HP	\$4,182	PB007X02NPW22	8.76	7.01	89.5	139	18.630
	1800	213HP	\$3,916	PB007X04NPW22	9.18	7.34	91.7	154	18.630
	1200	254HP	\$6,032	PB007X06NPW22	9.48	7.58	91.0	262	23.723
	3600	215HP	\$5,122	PB010X02NPW22	11.6	9.28	90.2	163	20.126
10	1800	215HP	\$4,942	PB010X04NPW22	12.4	9.92	91.7	172	20.126
	1200	256HP	\$7,856	PB010X06NPW22	12.9	10.3	91.0	289	25.455
	3600	254HP	\$6,700	PB015X02NPW22	17.2	13.8	91.0	236	23.723
	1800	254HP	\$6,324	PB015X04NPW22	18.0	14.4	92.4	251	23.723
15	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
	3600	256HP	\$7,150	PB020X02NPW22	23.2	18.6	91.0	269	25.455
	1800	256HP	\$6,904	PB020X04NPW22	24.1	19.3	93.0	291	25.455
20	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
	3600	284HP	\$9,790	PB025X02NPW22HP	28.5	22.8	91.7	362	26.350
	3600	284HPH	\$9,790	PB025X02NPW22HPH	28.5	22.8	91.7	362	28.100
25	1800	284HP	\$9,726	PB025X04NPW22HP	29.5	23.6	93.6	388	26.350
	1800	284HPH	\$9,726	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
	3600	286HP	\$11,154	PB030X02NPW22HP	33.8	27.0	91.7	392	27.845
30	3600	286HPH	\$11,154	PB030X02NPW22HPH	33.8	27.0	91.7	392	29.595
	1800	286HP	\$10,358	PB030X04NPW22HP	35.1	28.1	93.6	437	27.845
	1800	286HPH	\$10,358	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	\$14,196	PB040X02NPW22	45.8	36.6	92.4	547	30.403
	1800	324HP	\$13,596	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
	3600	326HP	\$17,910	PB050X02NPW22	56.1	44.9	93.0	584	31.897
50	1800	326HP	\$17,204	PB050X04NPW22	59.2	47.4	94.5	536	31.897
	1200	364/5HP	\$30,040	PB050X06NPW22	57.4	45.9	94.1	869	34.830
	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
60	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
	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
75	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
	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
100	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
	3600	444/5HP	P.O.A	PB125X02NPW22	134	107	95.0	1599	41.350
125	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

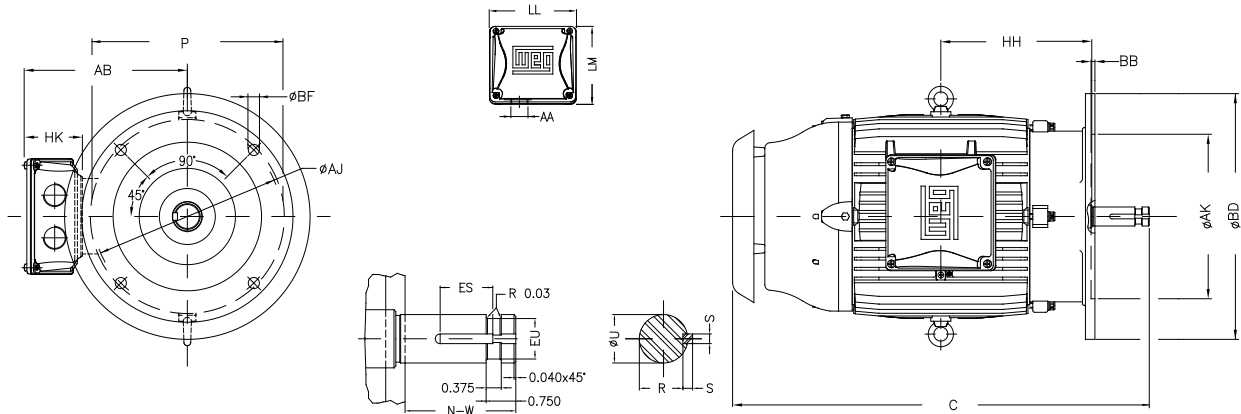
W22 P-Base Motors - NEMA Premium

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	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
		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
2	1.5	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
		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
3	2.2	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
		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
5	3.7	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
		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
7.5	5.5	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
		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
10	7.5	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
		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
15	11	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
		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
20	15	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
		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
25	18.5	1765	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
40	30	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
		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
		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
60	45	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
		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
75	55	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
		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
100	75	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

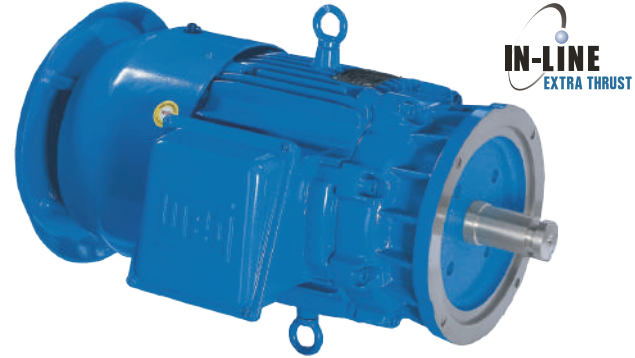


NEMA FRAMES	# of Poles	P	AB	AH	U	N-W	ES	EU	S	R	HH	HK	C	LL	LM	AA	Bearing		Flange				
																	D.E.	N.D.E.	AJ	AK	BD	BF	BB
143HP	2	7.047	6.260	2.750	0.875	2.874	1.250	0.687	0.187	0.765	4.250	2.638	13.421	4.528	4.094	NPT 3/4"	6307 ZZ	6204 ZZ					
143HP	4/6/8																						
145HP	2								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

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 only be achieved with a WEG VFD running in Sensorless Vector
See page 7.6 for details



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

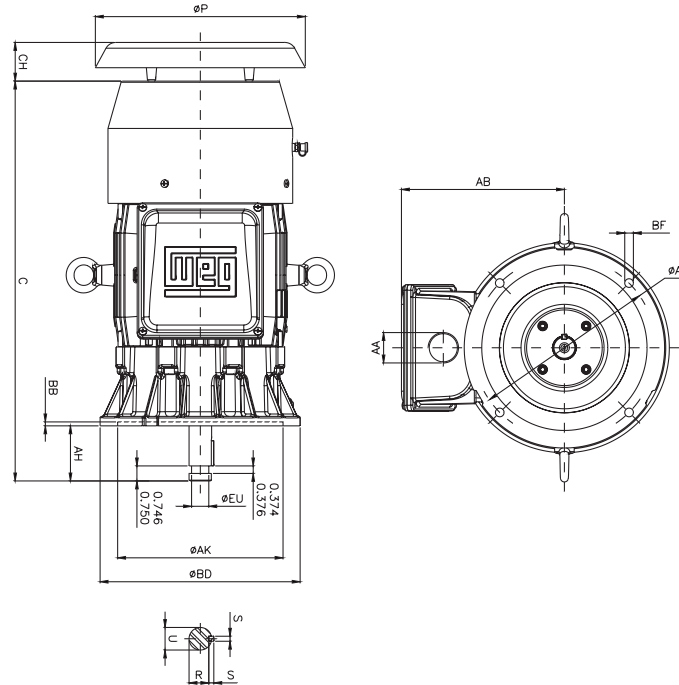
Rated Output		NEMA Frame	List Price	Part Number	Overall Length "C" Dim. (in.)
HP	RPM				
1	900	182LP	\$5,658	LP000X08NP	19.350
1.5	1200	182LP	\$5,506	LP001X06NP	19.350
	900	184LP	\$6,074	LP001X08NP	20.350
2	1200	184LP	\$5,924	LP002X06NP	20.350
	900	213LP	\$7,076	LP002X08NP	21.670
3	3600	182LP	\$5,492	LP003X02NP	19.350
	1800	182LP	\$5,744	LP003X04NP	19.350
	1200	213LP	\$7,244	LP003X06NP	21.670
	900	215LP	\$7,674	LP003X08NP	23.160
5	3600	184LP	\$6,086	LP005X02NP	20.350
	1800	184LP	\$5,788	LP005X04NP	20.350
	1200	215LP	\$7,386	LP005X06NP	23.160
	900	254LP	\$9,944	LP005X08NP	26.710
7.5	3600	213LP	\$7,334	LP007X02NP	21.670
	1800	213LP	\$7,164	LP007X04NP	21.670
	1200	254LP	\$9,332	LP007X06NP	26.710
	900	256LP	\$10,396	LP007X08NP	28.440
10	3600	215LP	\$7,652	LP010X02NP	23.160
	1800	215LP	\$8,062	LP010X04NP	23.160
	1200	256LP	\$9,878	LP010X06NP	28.440
	900	284LP	\$11,198	LP010X08NP	29.410
15	3600	254LP	\$9,246	LP015X02NP	26.710
	1800	254LP	\$9,640	LP015X04NP	26.710
	1200	284LP	\$11,966	LP015X06NP	29.410
	900	286LP	\$13,732	LP015X08NP	30.910
20	3600	256LP	\$11,850	LP020X02NP	28.440
	1800	256LP	\$11,558	LP020X04NP	28.440
	1200	286LP	\$14,796	LP020X06NP	30.910
	900	324LP	\$16,252	LP020X08NP	32.320
25	3600	284LP	\$13,382	LP025X02NP	29.410
	1800	284LP	\$12,586	LP025X04NP	29.410
	1200	324LP	\$16,584	LP025X06NP	32.320
	900	326LP	\$19,376	LP025X08NP	33.820
30	3600	286LP	\$13,748	LP030X02NP	30.910
	1800	286LP	\$14,446	LP030X04NP	30.910
	1200	326LP	\$19,532	LP030X06NP	33.820
	900	364/5LP	\$27,034	LP030X08NP	35.930
40	3600	324LP	\$17,658	LP040X02NP	32.320
	1800	324LP	\$16,934	LP040X04NP	32.320
	1200	364/5LP	\$27,014	LP040X06NP	35.930
	900	364/5LP	\$27,768	LP040X08NP	35.930
50	3600	326LP	\$20,030	LP050X02NP	33.820
	1800	326LP	\$20,314	LP050X04NP	33.820
	1200	364/5LP	\$27,962	LP050X06NP	35.930
	900	404/5LP	\$36,046	LP050X08NP	38.920
60	3600	364/5LP	\$26,762	LP060X02NP	35.930
	1800	364/5LP	\$29,404	LP060X04NP	35.930
	1200	404/5LP	\$37,726	LP060X06NP	38.920
	900	404/5LP	\$39,384	LP060X08NP	38.920
75	3600	364/5LP	\$30,274	LP075X02NP	35.930
	1800	364/5LP	\$31,250	LP075X04NP	35.930
	1200	404/5LP	\$39,212	LP075X06NP	38.920
	900	444/5LP	\$47,910	LP075X08NP	41.410
100	3600	404/5LP	\$35,692	LP100X02NP	38.920
	1800	404/5LP	\$40,286	LP100X04NP	38.920
	1200	444/5LP	\$48,574	LP100X06NP	41.410
	900	444/5LP	\$53,510	LP100X08NP	41.410
125	3600	444/5LP	\$51,294	LP125X02NP	41.410
	1800	444/5LP	\$49,788	LP125X04NP	41.410
	1200	444/5LP	\$52,954	LP125X06NP	41.410
150	3600	444/5LP	\$53,476	LP150X02NP	41.410
	1800	444/5LP	\$53,986	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																		12.165	9.331	21.665	2.323	NPT1.0.5"	6309	2x7309					
215 LP																				23.161									
254 LP																			13.071	10.000			26.705						
256 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	28.437	2.716	NPT1.0.5"	6212	2x7310											
284 LP																												29.409	
286 LP																						17.087	11.732	30.906	3.189	NPT2"	6314	2x7311	
324 LP																								32.323					
326 LP																								33.819	3.583	NPT3"	6314	2x7311	
364/5 LP																								35.925					
404/5 LP - 2P																							21.417	16.693					38.917
404/5 LP																													
444/5 LP - 2P																							26.850	19.843	41.909	2xNPT3"	6314	2x7311	
444/5 LP																													

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)
- 104°F (40°C) 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	\$5,696	OT010406W22	13.6 - 10.3 - 6.70	82.5 - 80.0 - 81.5	243	24.945
15 - 10 - 7.5	1200	284/6T	\$7,452	OT015406W22	18.3 - 12.5 - 9.30	85.0 - 84.0 - 82.5	397	27.929
20 - 15 - 10	1200	284/6T	\$9,060	OT020406W22	25.2 - 18.6 - 12.6	84.0 - 82.5 - 84.0	448	27.929
25 - 20 - 15	1200	324/6T	\$11,822	OT025406W22	30.2 - 24.7 - 18.1	87.5 - 85.5 - 85.5	562	31.116
30 - 25 - 20	1200	324/6T	\$13,752	OT030406W22	35.5 - 30.2 - 24.9	88.5 - 85.5 - 84.0	601	31.116
40 - 30 - 25	1200	364/5T	\$17,970	OT040406W22	50.1 - 36.7 - 31.4	88.5 - 85.5 - 84.0	816	34.251
50 - 40 - 30	1200	404/5T	\$22,280	OT050406W22	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	OT060406W22405T	76.0 - 61.7 - 50.0	88.5 - 86.5 - 85.5	1,205	39.730
	1200	444/5T	\$35,318	OT060406W22	73.4 - 61.0 - 50.4	88.5 - 86.5 - 84.0	1,435	45.193
75 - 60 - 50	1200	444/5T	\$47,268	OT075406W22	87.6 - 71.7 - 62.1	88.5 - 87.5 - 84.0	1,551	45.193
100 - 75 - 60	1200	444/5T	\$55,268	OT100406W22	120 - 89.7 - 72.5	90.2 - 88.5 - 87.5	1,863	45.193

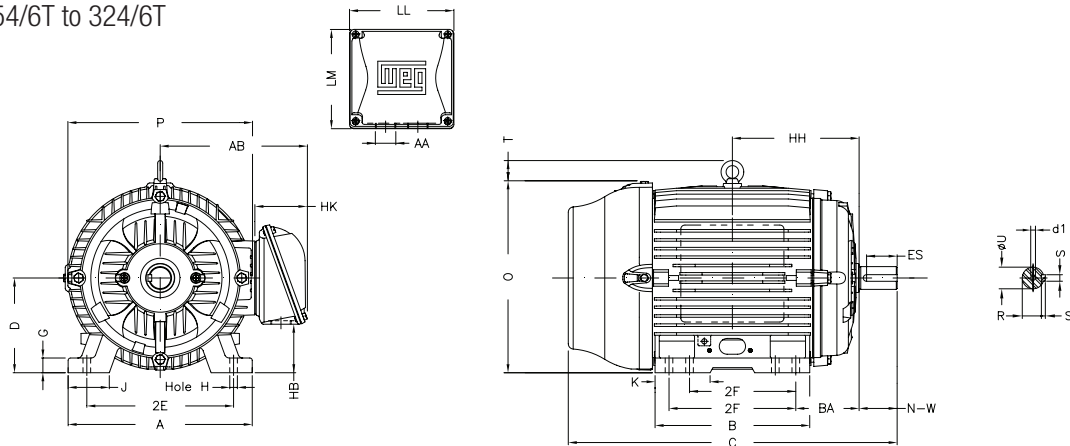
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A) 460V	Locked rotor current (lI/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

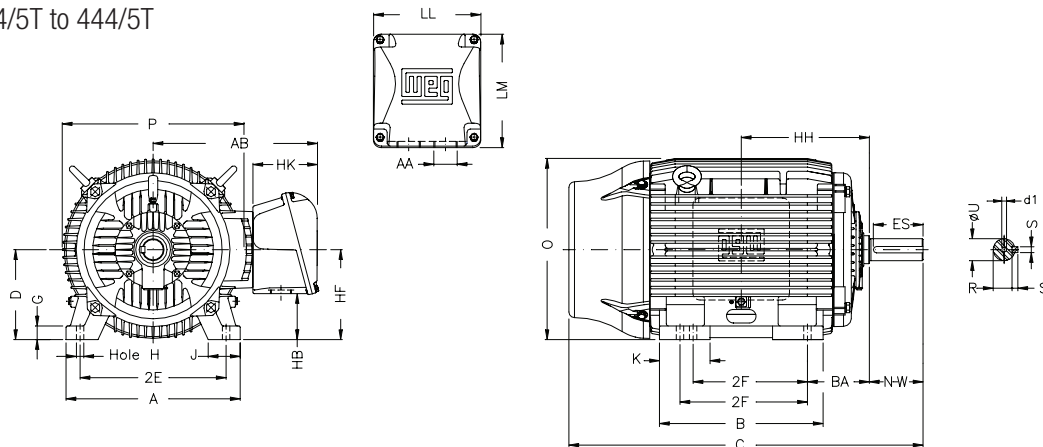
W22 Oil Well Pumping Motors - Triple Rated

TEFC - Mechanical Data

Frames 254/6T to 324/6T



Frames 364/5T to 444/5T



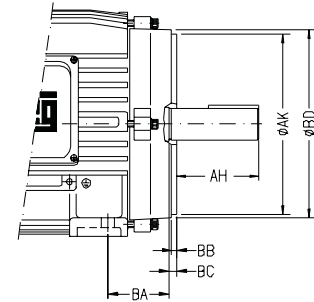
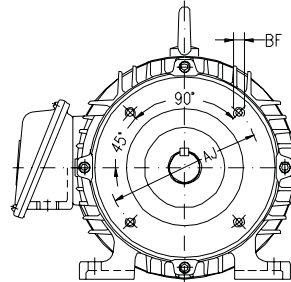
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
254/6T	10.000	10.000	0.531	4.250	12.126	11.732	24.945	6.250	0.827	2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6T	11.000	11.000		4.750	13.780	13.071	27.929	7.000	1.023	3.110	14.067	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		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		5.394			15.748		11.811	11.890	2xNPT 3"		6319 C3	6316 C3

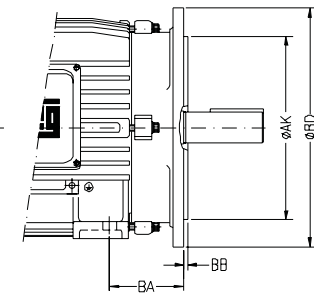
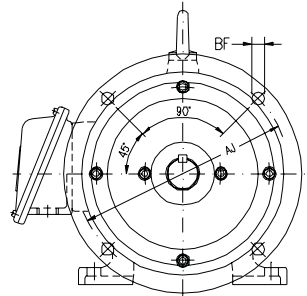
W22 Oil Well Pumping Motors - Triple Rated

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			13.583					5.000
364/5TC	5.875	11.000	12.500	15.551	8	UNC 5/8"x11	0.250	0.250	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	8	0.828	0.203		
404/5TD	6.625	20.000	18.000	22.000					
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)
- 104°F (40°C) 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™



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



Definite Purpose Motors

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	\$2,436	\$2,656	\$2,904	BM000X02NPW22	1.43	1.14	78.5	41.9	12	10
	1800	143/5T	\$2,602	\$2,820	\$3,070	BM000X04NPW22	1.41	1.13	85.5	46.3	12	10
	1200	143/5T	\$3,368	\$3,586	\$3,836	BM000X06NPW22	1.73	1.38	82.5	58.4	12	10
	900	182/4T	\$4,006	\$4,256	\$4,522	BM000X08NPW22	2.30	1.84	78.5	108	44	14
1.5	3600	143/5T	\$2,676	\$2,894	\$3,144	BM001X02NPW22	1.96	1.57	84.0	46.3	12	10
	1800	143/5T	\$2,774	\$2,992	\$3,240	BM001X04NPW22	2.02	1.62	86.5	54	12	10
	1200	182/4T	\$3,870	\$4,120	\$4,386	BM001X06NPW22	2.54	2.03	87.5	83.6	44	14
	900	182/4T	\$4,278	\$4,528	\$4,794	BM001X08NPW22	2.70	2.16	82.5	124	44	14
2	3600	143/5T	\$2,794	\$3,014	\$3,262	BM002X02NPW22	2.56	2.05	85.5	57.3	12	10
	1800	143/5T	\$2,894	\$3,114	\$3,362	BM002X04NPW22	2.69	2.15	86.5	56.2	12	10
	1200	182/4T	\$4,370	\$4,618	\$4,884	BM002X06NPW22	3.23	2.58	88.5	101	44	14
	900	213/5T	\$6,292	\$6,574	\$6,870	BM002X08NPW22	3.39	2.71	85.5	169	59	16
3	3600	182/4T	\$3,960	\$4,208	\$4,474	BM003X02NPW22	3.63	2.90	86.5	101	44	14
	1800	182/4T	\$4,120	\$4,368	\$4,634	BM003X04NPW22	3.91	3.13	89.5	104	44	14
	1200	213/5T	\$5,542	\$5,822	\$6,118	BM003X06NPW22	4.41	3.53	89.5	141	59	16
	900	213/5T	\$7,590	\$7,872	\$8,168	BM003X08NPW22	4.56	3.65	85.5	196	59	16
5	3600	182/4T	\$4,380	\$4,628	\$4,894	BM005X02NPW22	5.90	4.72	88.5	101	44	14
	1800	182/4T	\$4,738	\$4,986	\$5,252	BM005X04NPW22	6.45	5.16	89.5	108	44	14
	1200	213/5T	\$6,718	\$7,000	\$7,294	BM005X06NPW22	6.83	5.46	89.5	182	59	16
	900	254/6T	\$9,912	\$10,458	\$11,098	BM005X08NPW22	7.58	6.06	87.5	300	111	18
7.5	3600	213/5T	\$5,574	\$5,854	\$6,150	BM007X02NPW22	8.76	7.01	89.5	159	59	16
	1800	213/5T	\$6,014	\$6,296	\$6,592	BM007X04NPW22	9.00	7.20	91.7	154	59	16
	1200	254/6T	\$8,660	\$9,208	\$9,846	BM007X06NPW22	9.48	7.58	91.0	304	111	18
	900	254/6T	\$12,940	\$13,486	\$14,126	BM007X08NPW22	11.1	8.88	87.5	326	111	18
10	3600	213/5T	\$8,010	\$8,292	\$8,588	BM010X02NPW22	11.6	9.28	90.2	183	59	16
	1800	213/5T	\$6,920	\$7,200	\$7,496	BM010X04NPW22	12.4	9.92	91.7	192	59	16
	1200	254/6T	\$10,864	\$11,410	\$12,050	BM010X06NPW22	12.9	10.3	91.0	331	111	18
	900	284/6T	\$17,070	\$17,742	\$18,570	BM010X08NPW22	13.4	10.7	90.2	437	192	20
15	3600	254/6T	\$9,740	\$10,288	\$10,926	BM015X02NPW22	17.2	13.8	91.0	278	111	18
	1800	254/6T	\$9,640	\$10,186	\$10,826	BM015X04NPW22	18.0	14.4	92.4	293	111	18
	1200	284/6T	\$16,612	\$17,284	\$18,112	BM015X06NPW22	17.9	14.3	91.7	443	192	20
	900	284/6T	\$19,774	\$20,444	\$21,272	BM015X08NPW22	19.4	15.5	90.2	481	192	20
20	3600	254/6T	\$11,364	\$11,910	\$12,550	BM020X02NPW22	23.2	18.6	91.0	311	111	18
	1800	254/6T	\$10,714	\$11,260	\$11,898	BM020X04NPW22	24.1	19.3	93.0	333	111	18
	1200	284/6T	\$18,948	\$19,620	\$20,448	BM020X06NPW22	24.2	19.4	91.7	490	192	20
	900	324/6T	\$23,366	\$24,176	\$25,144	BM020X08NPW22	28.3	22.6	91.0	542	295	25
25	3600	284/6TS	\$13,560	\$14,232	\$15,060	BM025X02NPW22	28.5	22.8	91.7	426	192	20
	1800	284/6T	\$12,920	\$13,590	\$14,418	BM025X04NPW22	29.5	23.6	93.6	452	192	20
	1200	324/6T	\$18,596	\$19,406	\$20,374	BM025X06NPW22	30.4	24.3	93.0	650	295	25
	900	324/6T	\$24,078	\$24,888	\$25,856	BM025X08NPW22	35.9	28.7	91.0	600	295	25
30	3600	284/6TS	\$14,862	\$15,534	\$16,360	BM030X02NPW22	33.8	27.0	91.7	456	192	20
	1800	284/6T	\$13,514	\$14,184	\$15,012	BM030X04NPW22	35.1	28.1	93.6	501	192	20
	1200	324/6T	\$20,944	\$21,754	\$22,722	BM030X06NPW22	35.8	28.6	93.0	644	295	25
	900	364/5T	\$36,066	\$37,814	\$40,014	BM030X08NPW22	37.0	29.6	92.4	902	391	25
40	3600	324/6TS	\$18,596	\$19,406	\$20,374	BM040X02NPW22	45.8	36.6	92.4	547	295	25
	1800	324/6T	\$16,594	\$17,404	\$18,372	BM040X04NPW22	47.1	37.7	94.1	582	295	25
	1200	364/5T	\$29,248	\$30,996	\$33,196	BM040X06NPW22	46.5	37.2	94.1	933	391	25
	900	364/5T	\$36,552	\$38,298	\$40,498	BM040X08NPW22	50.0	40.0	92.4	975	391	25
50	3600	324/6TS	\$20,284	\$21,096	\$22,062	BM050X02NPW22	56.1	44.9	93.0	584	295	25
	1800	324/6T	\$17,976	\$18,786	\$19,752	BM050X04NPW22	59.2	47.4	94.5	626	295	25
	1200	364/5T	\$32,068	\$33,816	\$36,016	BM050X06NPW22	57.4	45.9	94.1	968	391	25
	900	404/5T	\$49,984	\$51,732	\$53,932	BM050X08NPW22	60.0	48.0	93.0	1,118	391	25
60	3600	364/5TS	\$30,838	\$32,586	\$34,786	BM060X02NPW22	67.0	53.6	93.6	825	391	25
	1800	364/5T	\$29,342	\$31,090	\$33,290	BM060X04NPW22	68.3	54.6	95.0	968	391	25
	1200	404/5T	\$40,074	\$41,820	\$44,020	BM060X06NPW22	69.5	55.6	94.5	1,142	391	25
	900	404/5T	\$58,814	\$60,562	\$62,762	BM060X08NPW22	73.0	58.4	93.0	1,217	391	25
75	3600	364/5TS	\$35,700	\$37,448	\$39,648	BM075X02NPW22	81.9	65.5	93.6	847	391	25
	1800	364/5T	\$32,648	\$34,396	\$36,596	BM075X04NPW22	84.1	67.3	95.4	1,019	391	25
	1200	404/5T	\$42,740	\$44,488	\$46,688	BM075X06NPW22	84.9	67.9	94.5	1,195	391	25
100	3600	404/5TS	\$44,092	\$45,840	\$48,040	BM100X02NPW22	110	88.0	94.1	1,045	391	25
	1800	404/5T	\$41,388	\$43,136	\$45,336	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 (l/l/n)	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.

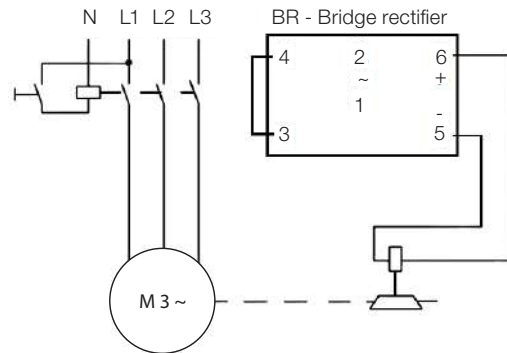
Rated voltage V_{RMS} [Vca]	Brake size	Brake coil voltage [Vcc]	Wave form
110	10 to 25	103	Full
220-240		205	
380-415		180	Half wave
440-480		205	
525-575		250	

Braking system

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

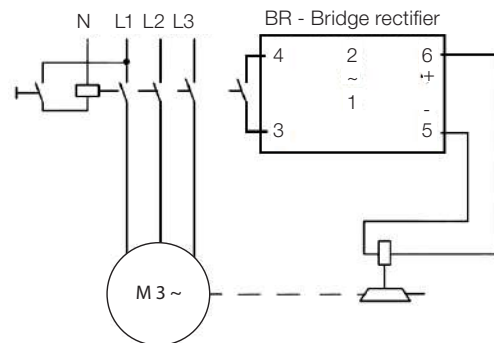
Normal braking

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



Fast braking

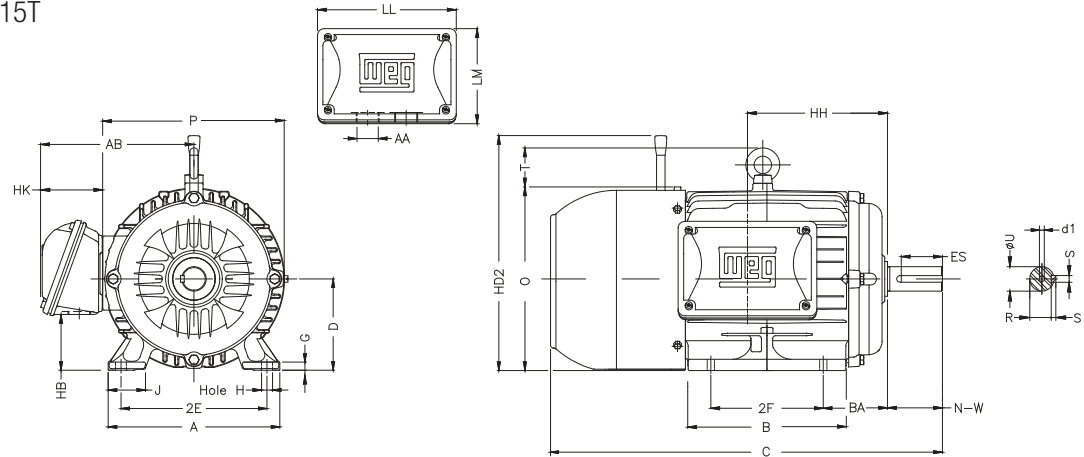
For fast braking, the bridge rectifier must be connected as shown.



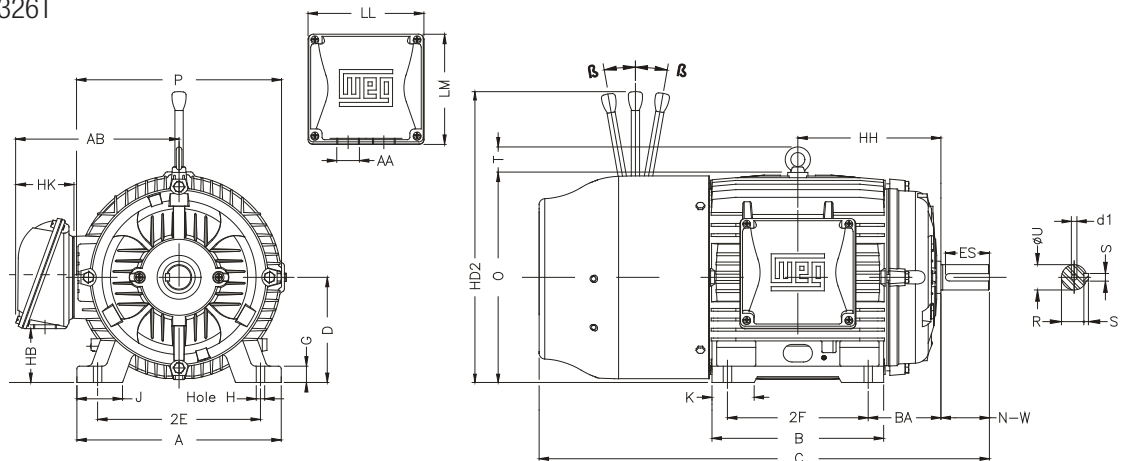
W22 NEMA Brake Motors - NEMA Premium

TEFC - Mechanical Data

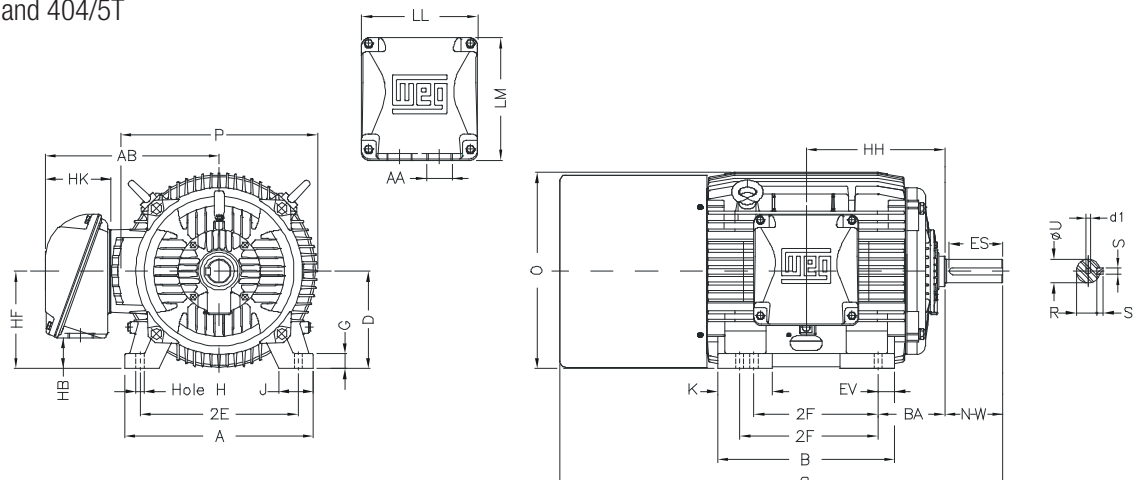
Frames 143T to 215T



Frames 254T to 326T



Frame 364/5T and 404/5T



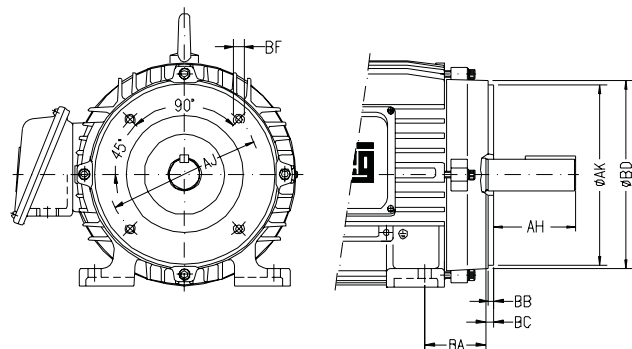
W22 NEMA Brake Motors - NEMA Premium

TEFC - Mechanical Data

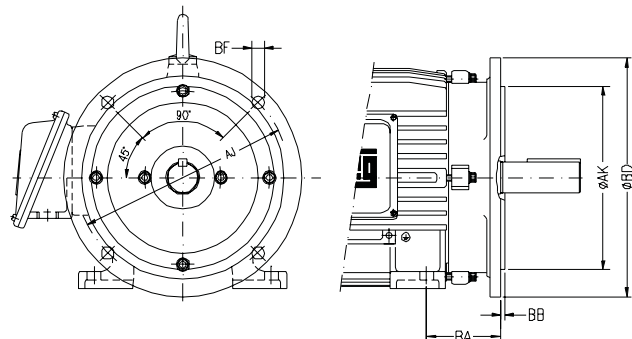
Frame	A	AA	AB	B	BA	C	D	EV	G	Shaft				
										U	N-W	ES	R	S
143/5T	6.457	NPT 3/4"	6.263	6.142	2.250	13.346	3.500	-	0.354	0.875	2.250	1.575	0.765	0.187
182/4T	8.661	NPT 1"	7.513	6.969	2.750	15.860	4.500		0.394	1.125	2.750	1.969	0.984	0.250
213/5T	9.764		8.609	8.858	3.500	19.517	5.250		0.669	1.375	3.375	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	
324/6TS	15.157		NPT 2"	12.575	14.567	5.250	29.616		8.000	1.300	1.875	3.750	2.756	
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														6312-C3	6212-Z-C3	25.48			
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																6312-C3		6212-Z-C3	25.48
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					3.937	5.669			19.566	19.134	15.984	12.244/13.740		6316-C3					
404/5T	0.810	5.252	14.213																

"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								2.625		
213/5TC	3.500	7.250	8.500	8.875		UNC 1/2"x13			3.125		
254/6TC	4.250								3.75		
284/6TC								4.375			
284/6TSC	4.750	9.000	10.500	11.031			0.250	0.250	3.000		
324/6TC									5.000		
324/6TSC	5.250			13.583					3.500		
364/5TC					8	UNC 5/8"x11			5.625		
364/5TSC	5.875	11.000	12.500						3.500		
404/5TC				15.551					7.000		
404/5TSC	6.625								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			
284/6TD	4.750						
284/6TSD	5.250	16.000	14.000	18.000			
324/6TD							
324/6TSD							
364/5TD	5.875	20.000	18.000	22.000			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000			
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
- 104°F (40°C) 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	\$2,966	SR003X02S6	4.29	3.43	80.5	85	18.543
5	3600	80M	\$3,954	SR005X02S6	6.65	5.32	85.0	100	20.512
	1800	90L	\$5,474	SR005X04S6	7.03	5.62	84.5	143	26.476
7.5	3600	80L	\$4,958	SR007X02S6	9.76	7.81	87.4	122	22.48
	1800	90L	\$6,106	SR007X04S6	10.1	8.08	85.3	165	26.476
10	3600	90L	\$6,916	SR010X02S6	12.3	9.84	85.0	166	26.476
	1800	90L	\$7,724	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

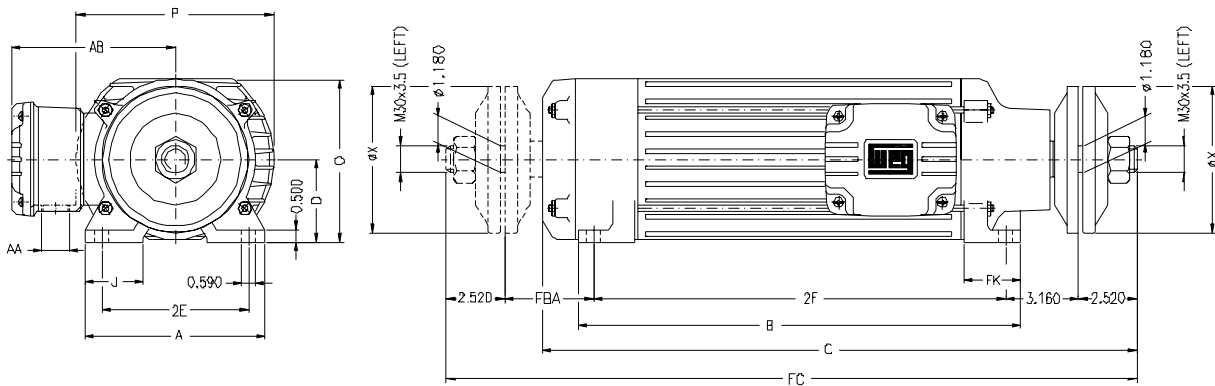
Saw Arbor Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (I _L /I _n)	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)
- 104°F (40°C) 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



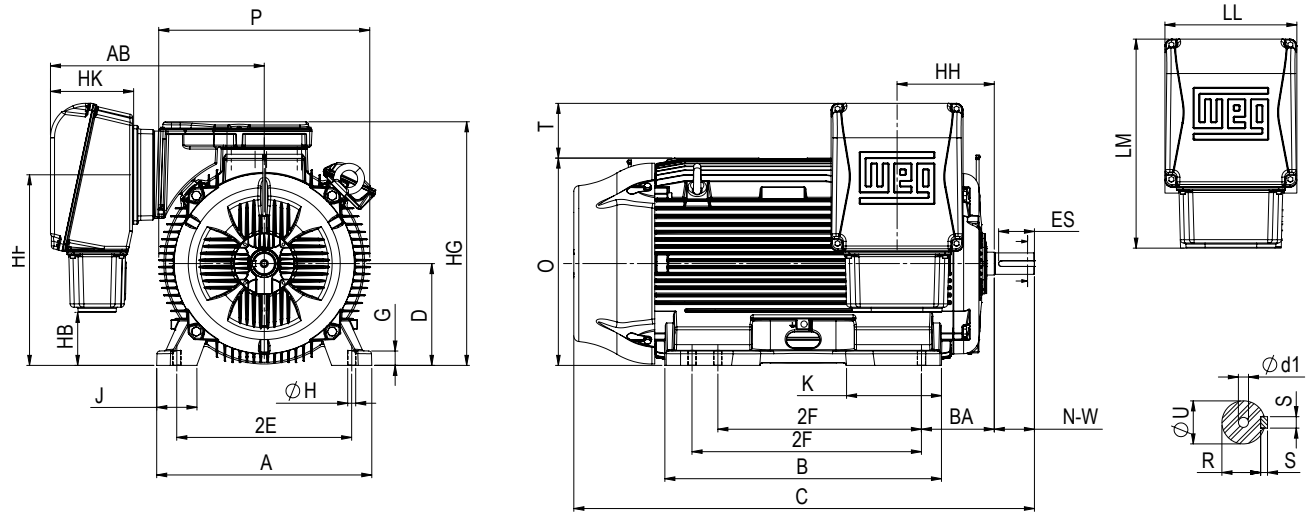
W22 Medium Voltage Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)					Locked rotor current (l/l/n)	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
175	132	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
		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
200	150	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
		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
250	185	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
300	220	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
350	260	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
		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
400	300	1191	588/7T	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
		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
450	330	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
500	370	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
550	400	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
		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
600	450	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
		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
650	480	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
		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
700	500	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	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		25.000					54.030								0.625	2.021	3.000	4.750	2.375			
586/7T	23.000	22.000	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		25.000					54.829								0.625	2.021	3.000	4.750	2.375			
588/9T		28.000				37.980	69.381				13.031				1.000	3.312	8.661	11.625	3.875			
588/9TS		32.000					62.506								0.625	2.021	3.000	4.750	2.375			
		28.000																				
		32.000																				

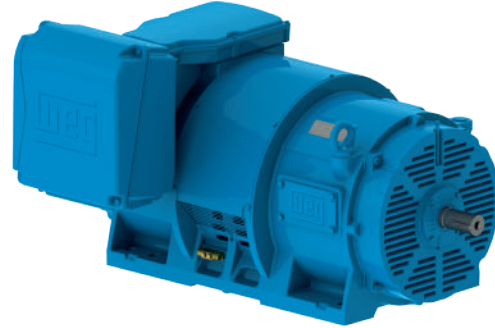
NEMA Frames	TERMINAL BOX								BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	D.E.	N.D.E
L447/9T	28.543	2.008	20.905	28.189	12.606	11.417	18.110	28.740	6322-C3	6319-C3
L447/9TS	28.740*	3.386*	22.283*	29.567*					6314-C3	
586/7T	29.330	7.807 9.185*	27.177 28.673*	33.988 35.366*	13.386				6322-C3	6319-C3
586/7TS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

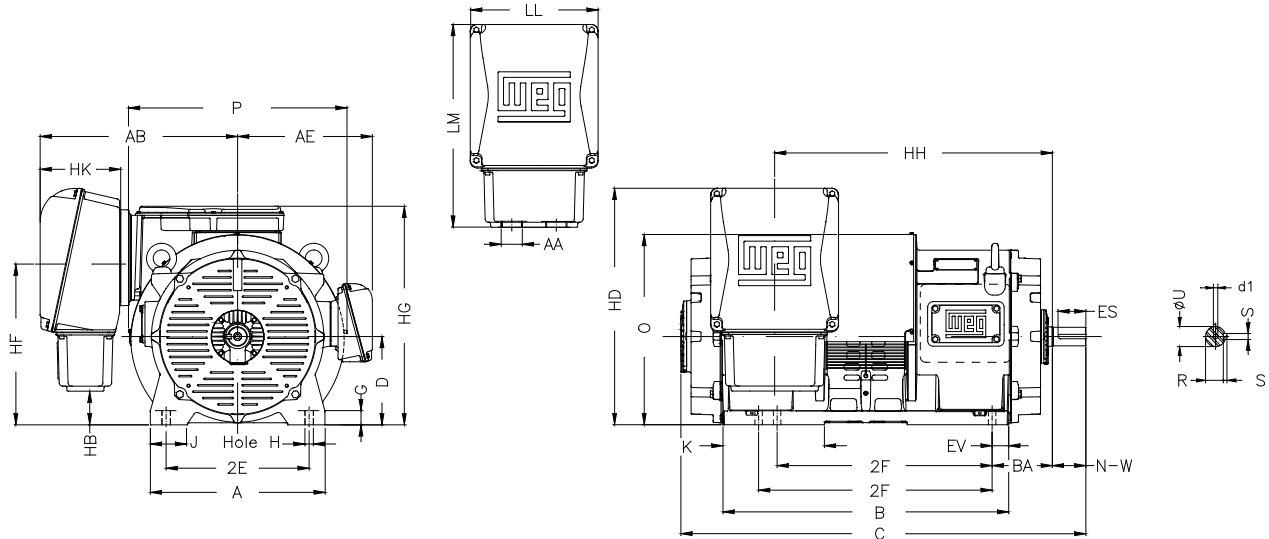
ODP - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)					Locked rotor current (I _L /I _n)	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
650	480	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
		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
700	515	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
		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
750	550	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
800	590	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
		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
850	630	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
900	660	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
950	700	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
1000	750	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
1050	800	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
		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
1100	850	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
1150	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
1200	950	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
1250	1000	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
		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
1300	1050	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
1350	1100	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
		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
1400	1150	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	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
1450	1200	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

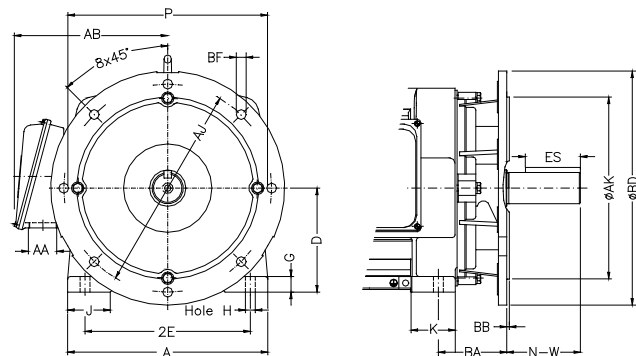


Frame	2E	J	A	AB	AE	P	2F	K	B	BA	U	d1	N-W	ES	S	R
5010/11 - 2P	20.000	5.236	24.724	28.543	18.121	30.670	32.000/36.000	14.200	40.260	8.504	2.625	DUNC 3/4"-10	4.750	3.000	0.625	2.275
5010/11											3.625					
L5010/11 - 2P											3.250					
L5010/11											4.375					
L5810/11 - 2P	23.000	6.710	29.530	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							38.384						59.211		6218 C3	6218 C3
L5010/11							51.145						65.086		6224 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		6220 C3	6220 C3
L5810/11							54.723						70.444		6228 C3	

FD Flange

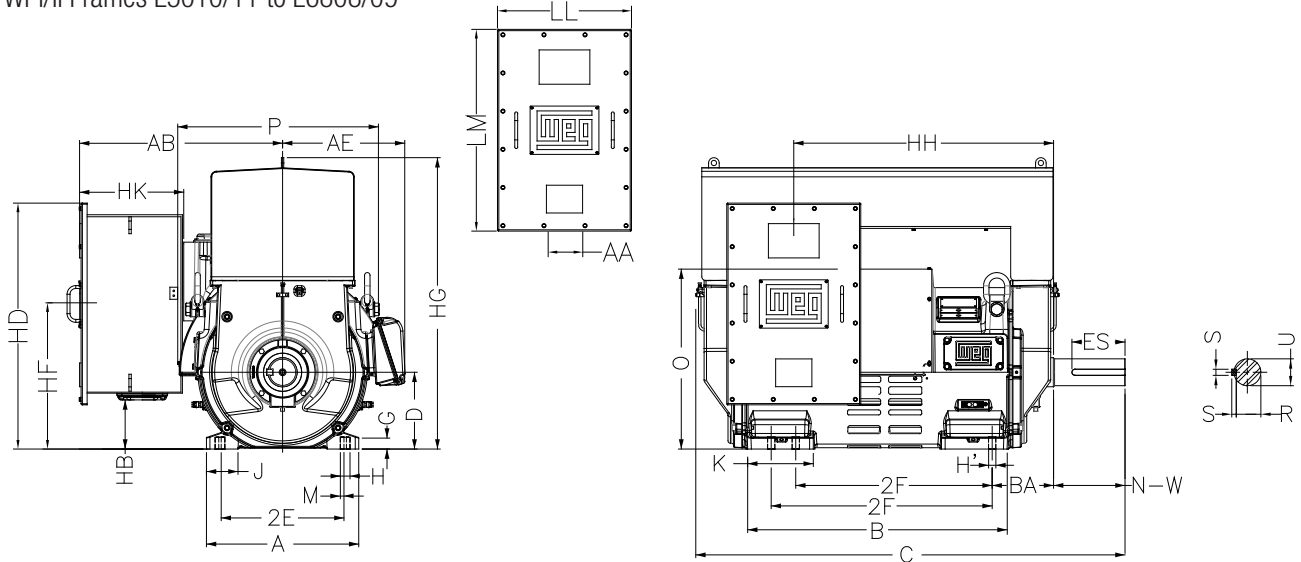
Frame	Flange	AJ	AK	BD	S	T	AH	α	N° of holes
5010/11TS	FD-558	22.000	18.000	24.000	0.828	0.250	4.500	45°	8
5010/11T							10.380		
L5010/11TS							5.500		
L5010/11T							11.375		
L5810/11TS	FD-762	30.000	28.000	32.000	1.000	0.250	6.500	45°	8
L5810/11T							11.375		
L6808/09TS	FD-895	35.250	33.250	37.250	1.000	0.250	6.500	45°	8
L6808/09T							11.375		



W40 Medium Voltage Motors

WP-I / WP-II - Mechanical Data

WPI/II Frames L5010/11 to L6808/09

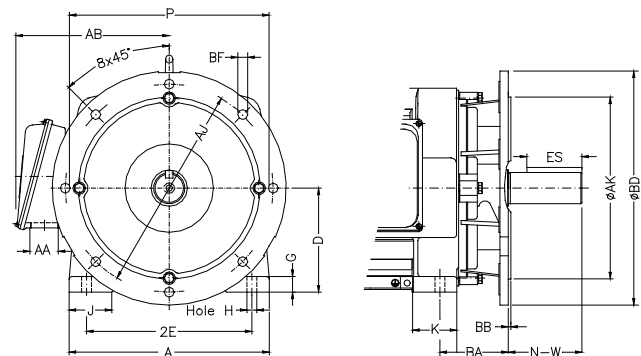


Frame	2E	J	A	AB	AE	P	2F	K	B	BA	U	d1	N-W	ES	S	R
L5010/11 - 2P	20.000	5.140	24.803	34.908	19.900	34.095	32.000/36.000	10.685	42.256	10.000	3.250	DUNC 3/4"-10	5.750	4.331	0.750	2.831
L5010/11											4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11 - 2P	23.000	6.710	29.530	34.908	21.864	39.976	36.000/40.000	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	6220 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	
L5810/11													77.412		6228 C3	
L6808/09 - 2P	17.000	1.973	39.524	21.850	32.874	14.695	47.569	30.327	57.214	48.720	18.805	1.417	72.537	NPT 4"	6220 C3	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	FD-762	30.000	28.000	32.000	0.828	0.250	11.375	45°	8
L5810/11TS							6.500		
L5810/11T							11.375		
L6808/09TS	FD-895	35.250	33.250	37.250	1.000	0.250	6.500	45°	8
L6808/09T							11.375		



HGF Low Voltage Motors

TEFC

Standard Features

- Rated Output: 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 system 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 (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
				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
		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
250	185	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
		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
300	220	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
		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
400	300	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
		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
450	330	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
		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
500	370	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
		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
		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
550	400	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
		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
600	440	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
		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
800	590	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
		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
850	630	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
		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
900	660	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

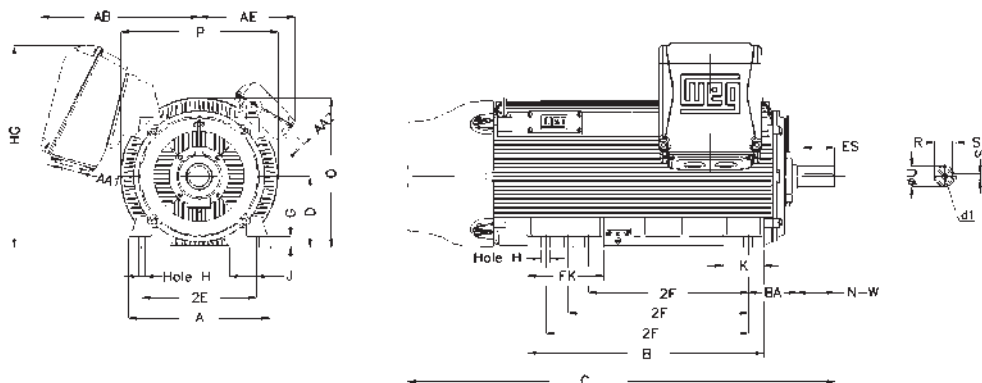
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (l/l/n)	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

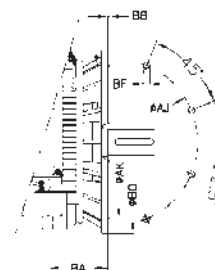
Frame 5006/7/8T to 6809/10/11T



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*)							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	
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*)							51.181		2.375*	4,75*		4,33*	0,625*	2,021*		
40.000									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							4.375					11.625	9.842	1.000	3.817	
6809/10/11T (TS*)							16.338		56.102	2.750*		5,75*	4,33*	0,625*	2,402*	
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

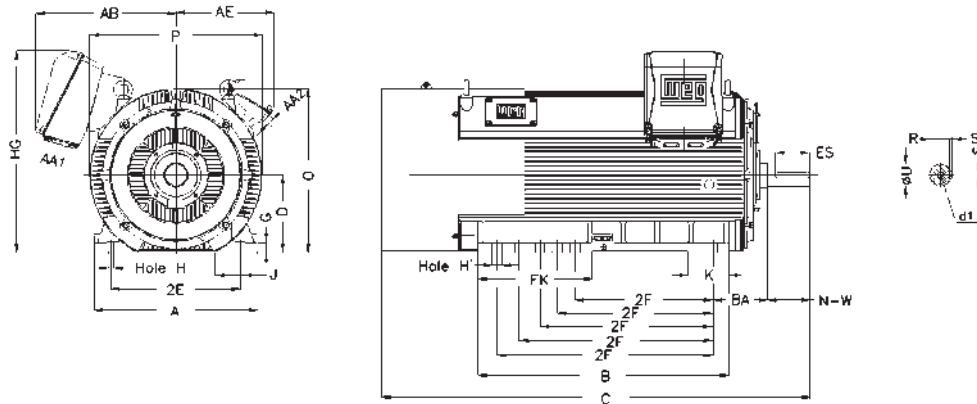
Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
5006/7/8T	D 558	8.5	22.000	18.000	24.000	1.000	0.250	8
5009/10/11T								
5807/8/9T	D 762	10.000	30.000	28.000	32.000	1.000		
5810/11/12T								
6806/7/8T	D 895	11.500	35.250	33.250	37.250	1.000		
6809/10/11T								



HGF Low Voltage Motors

TEFC - Mechanical Data

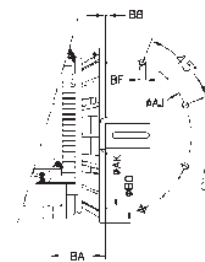
Frame 7006/10T



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	9.134	26.063	57.087	12.402	3,375*	6,75*	5,512*	0,875*	2,88*
							36.000					5.125	11.625	9.842	1.250	4.423
							40.000									
							45.000									
							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.
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 Output: 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



- 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 system 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

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



HGF Medium Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	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
		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
175	132	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
		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
200	150	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
300	220	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
		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
350	260	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
400	300	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
		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
450	330	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
500	370	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
		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
550	400	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
600	440	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
		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
650	480	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
700	515	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
		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
750	560	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
800	590	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
		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
850	630	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
		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
900	660	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
950	700	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
		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
1000	745	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
		713	7006/10	101	5.5	90%	200%	31	11475	82	1	95.5	95.8	95.8	0.66	0.76	0.80
1100	800	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
1200	850	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
		713	7006/10	114	5.5	90%	200%	31	12170	82	1	95.7	96.0	96.0	0.66	0.76	0.80
1300	900	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
1400	950	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
		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

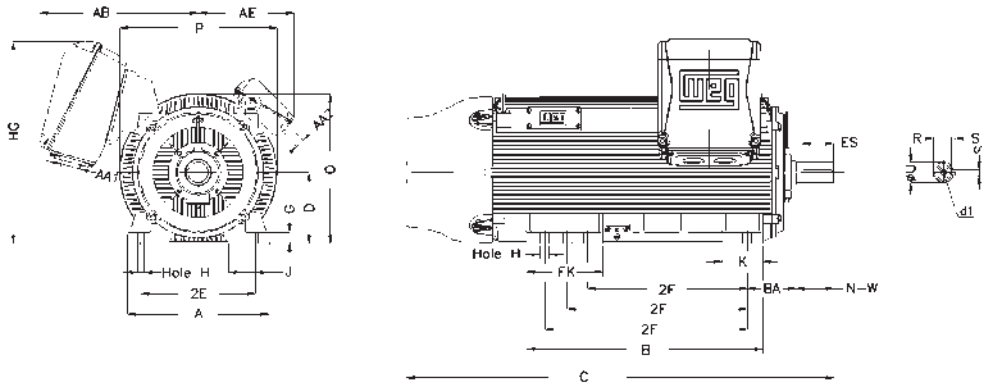
TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	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	8806/10T	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
1250	900	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
		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
1350	1000	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
		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
1500	1100	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
1700	1250	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
1900	1400	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
		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
2200	1600	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
		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
2500	1800	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
		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
2700	2000	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
		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
3000	2250	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
		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
3400	2500	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
		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

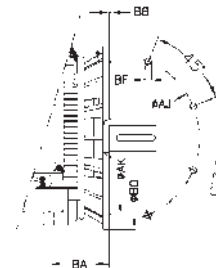
Frame 5006/7/8T to 6809/10/11T



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
							25.000					2.375*	4,75*	4,33*	0,625*	2,021*
							28.000					3.625	10.625	9.055	0.875	3.134
5009/10/11T (TS*)							32.000					2.375*	4,75*	4,33*	0,625*	2,021*
							36.000					3.625	10.625	9.055	0.875	3.134
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
							32.000					2.375*	4,75*	4,33*	0,625*	2,021*
							36.000					3.875	11.625	9.842	1.000	3.309
5810/11/12T (TS*)							40.000					2.375*	4,75*	4,33*	0,625*	2,021*
							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					4.375	11.625	9.842	1.000	3.817
							36.000					2.750*	5,75*	4,33*	0,625*	2,402*
							40.000					4.375	11.625	9.842	1.000	3.817
6809/10/11T (TS*)							45.000					2.750*	5,75*	4,33*	0,625*	2,402*
							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.
5006/7/8T	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
5009/10/11T							72.860	UNC 3/4"			6314	6314	6314	6314
5009/10/11T							78.735	UNC 7/8"			6320	6316	6320	6320
5807/8/9T	14.500	2.492	29.657	37.925	1.181	1.968	69.120	UNC 3/4"			6314	6314	6314	6314
5807/8/9T							75.995	UNC 7/8"			6322	6320	6322	6322
5810/11/12T							80.931	UNC 3/4"			6314	6314	6314	6314
5810/11/12T							87.806	UNC 7/8"			6322	6320	6322	6322
6806/7/8T	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
6809/10/11T							95.400	UNC 3/4"			6315	6315	6315	6315
6809/10/11T							101.275	UNC 1"			NU224	6320	6324	6324

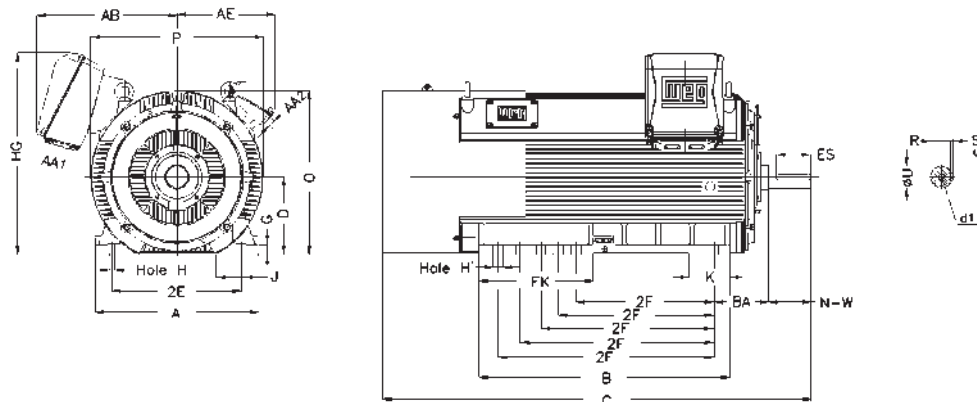
Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
5006/7/8T	D 558	8.5	22.000	18.000	24.000	1.000	0.250	8
5009/10/11T								
5807/8/9T	D 762	10.000	30.000	28.000	32.000	1.000		
5810/11/12T								
6806/7/8T	D 895	11.500	35.250	33.250	37.250	1.000		
6809/10/11T								



HGF Medium Voltage Motors

TEFC - Mechanical Data

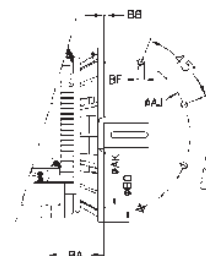
Frame 7006/10T to 9606/10T



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					5.125	11.625	9.842	1.250	4.423
							40.000									
							45.000									
							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	4.750	11.625	-	1.250	4.041
							40.000									
							45.000									
							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	5.125	11.625	-	1.250	4.423
							45.000									
							50.000									
							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	6.000	11.625	-	1.500	5.155
							40.000									
							45.000									
							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 (l/l/n)	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
300	220	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
		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
350	260	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
400	300	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
		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
450	330	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
500	370	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
550	400	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
600	440	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
650	480	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
700	515	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
750	560	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
800	590	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
850	630	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
900	660	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
950	700	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
1000	745	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
1050	775	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
1100	825	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
1150	860	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
1200	900	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
1250	950	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
1300	1000	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
1350	1050	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
1400	1100	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
1450	1150	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
1500	1200	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
1550	1250	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
		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
1600	1300	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
		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
1650	1350	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
1700	1400	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

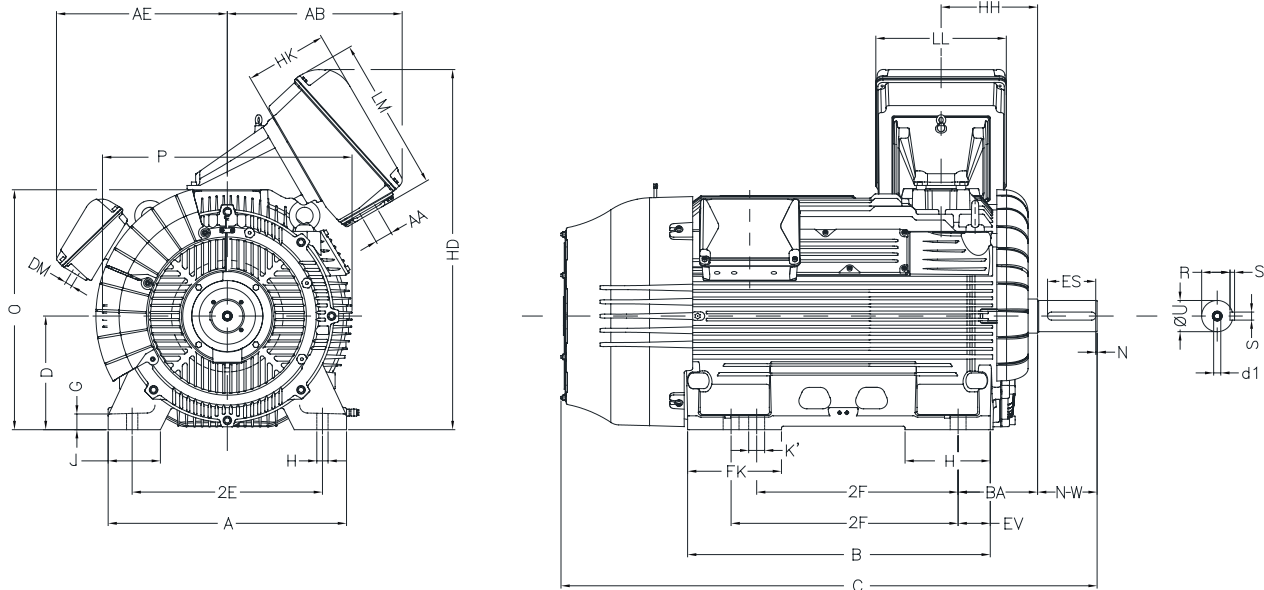
W50 Low Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (l/l/n)	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
		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
1250	900	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
		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
1350	1000	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
		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

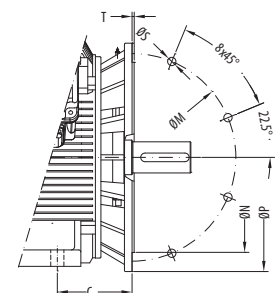
TEFC - Mechanical Data



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		21.339	28.000/32.000	11.120	32.677	11.120	3.150	1.181	2.375	4.750	4.331		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	24.378	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		5.157		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	13.841	32.000/36.000	48.728	15.219			5.157	2.205	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	5.157	2.205	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		1.181	1.575	8.504			UNC3/4"	2xNPT 3"		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		1.181	1.890	10.000			UNC3/4"	2xNPT 3"		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	11.410	1.417	2.205	11.500	18.110	21.429	UNC3/4"	2xNPT 4"	3xNPT 3/4"	6218 C3	6218 C3
	4/6/8	78.224												UNC1"			6324 C3	6319 C3
6808/09	2	78.254	17.000	1.974	34.520	51.170	13.862	11.410	1.417	2.205	11.500	18.110	21.429	UNC3/4"	2xNPT 4"	3xNPT 3/4"	6218 C3	6218 C3
	4/6/8	84.129												UNC1"			6324 C3	6319 C3
7006/07	2	79.742	17.500	2.467	36.870	53.517	13.780		1.417	2.205	11.500	18.110	21.429	UNC7/8"	2xNPT 4"	3xNPT 3/4"	6220 C3	6220 C3
	4/6/8	84.617												UNC1 1/4"			6328 C3	6322 C3
7008/09	2	85.648	17.500	2.467	36.870	53.517	13.780		1.417	2.205	11.500	18.110	21.429	UNC7/8"	2xNPT 4"	3xNPT 3/4"	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 (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
				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
250	185	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
		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
		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
300	220	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
		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
350	260	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
450	330	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
		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
500	370	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
		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
550	400	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
		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
600	440	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
		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
650	480	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
		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				

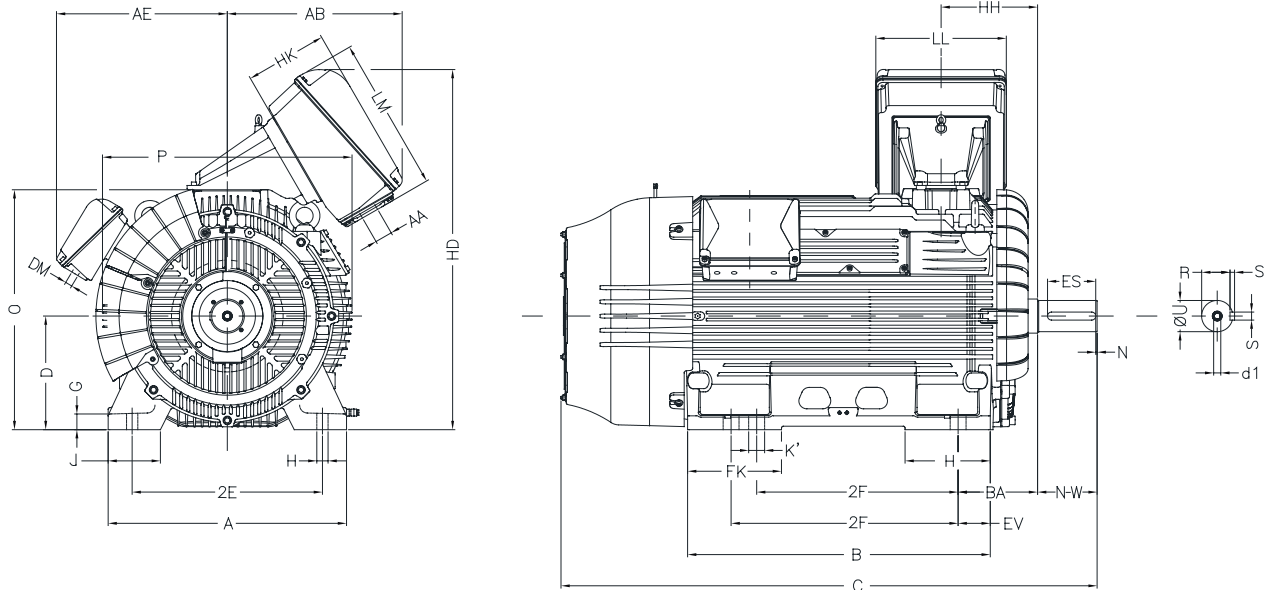
W50 Medium Voltage Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)				Locked rotor current (l/l/n)	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
		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
800	590	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
850	630	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
		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
900	660	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
		895	7008/09	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
		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
950	700	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
1000	750	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
1100	800	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
		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
1250	900	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
		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
1350	1000	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
		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
1500	1100	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
1700	1250	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
		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

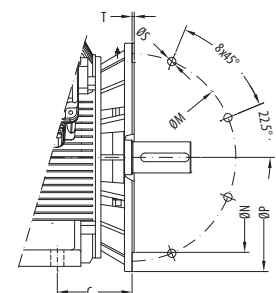
TEFC - Mechanical Data



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		21.339	28.000/32.000	11.120	32.677	11.120	3.150	1.181	2.375	4.750	4.331		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	24.378	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		5.157		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	40.000/36.000	13.841	48.728	15.219	5.157			2.205	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		2.205	3.375	6.750	5.512	0.875	2.880
	4/6/8																				5.125	11.625	9.843	1.250

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		1.181	1.575	8.504			UNC3/4"	2xNPT 3"		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"			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	11.410				18.110	21.429	UNC3/4"	2xNPT 4"	3xNPT 3/4"	6218 C3	6218 C3
	4/6/8	78.224		1.974										UNC 1"			6324 C3	6319 C3
6808/09	2	78.254							1.417	2.205	11.500			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 WPIL.



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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
275	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
	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
300	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
	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
350	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
370	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
	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
400	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
	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
450	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
500	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
	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
550	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
	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
600	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
650	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
	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
700	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
	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
750	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
800	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
	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
850	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 (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
	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
1750	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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
225	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
	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
250	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
275	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
300	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
350	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
370	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
400	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
	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
450	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
500	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
550	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
	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
600	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
650	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
700	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
	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
750	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
800	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
850	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
	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
900	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
950	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
1000	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
	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
1050	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
1100	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
1150	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
	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
1200	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
1250	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
1300	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
	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
1350	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
1400	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
1450	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
	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
1500	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
1550	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
1600	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
	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
1650	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
1700	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
1750	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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)		Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
	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
2000	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
	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
2250	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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
600	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
	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
750	593	7011	116	5.0	80%	200%	32	12690	85	1.00	93.3	93.9	93.6	0.50	0.61	0.67
	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
800	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
	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
900	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
	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
1000	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
	3573	6810	123	6.3	70%	240%	9	9184	90	1.00	94.8	95.2	94.9	0.85	0.88	0.89
1250	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
1500	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
1500	593	8010	177	5.0	80%	190%	34	17235	85	1.00	94.9	95.2	94.8	0.62	0.73	0.77
	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
1500	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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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 (l/l/n)	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
	1794	12009	1187	6.1	60%	220%	16	37220	92	1.00	96.7	96.9	96.9	0.88	0.90	0.90
10000	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
	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
12500	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
	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
13500	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
	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
15000	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
	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
20000	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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
500	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
	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
550	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
	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
600	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
700	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
	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
750	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
	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
800	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
850	591	7010	120	5.0	70%	170%	33	11001	78	1.00	93.9	94.2	93.6	0.53	0.64	0.69
	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
900	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
	3569	5812	109	6.3	60%	230%	8	5970	85	1.00	95.4	95.4	94.8	0.85	0.89	0.90
950	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
1000	593	8009	141	5.0	70%	190%	32	13845	85	1.00	94.4	94.7	94.3	0.53	0.64	0.70
	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
1050	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
	3569	5812	151	6.3	60%	230%	8	6440	85	1.00	95.8	95.8	95.2	0.85	0.89	0.90
1100	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
1150	593	8010	195	5.0	70%	190%	32	15011	85	1.00	94.8	95.1	94.7	0.53	0.64	0.70
	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
1200	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
	3570	6811	181	6.3	60%	220%	9	8470	85	1.00	95.9	95.9	95.4	0.87	0.90	0.90
1250	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
1300	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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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 HP	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
			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
	1793	12009	1598	5.5	60%	200%	14	34901	90	1.00	97.5	97.4	97.2	0.89	0.90	0.90
13500	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
	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
15000	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
	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
17500	717	16007	2193	5.0	40%	180%	24	76636	88	1.00	97.5	97.5	97.2	0.80	0.84	0.85
	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
	1794	12807	2658	5.7	60%	210%	11	49839	90	1.00	97.7	97.6	97.4	0.87	0.89	0.90
20000	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
	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
	1794	14407	3189	5.5	50%	200%	11	66190	92	1.00	97.7	97.7	97.4	0.88	0.90	0.90
27000	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 (l/l/n)	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
		3580	80	396	6.0	50%	220%	13	13220	85	95.7	96.0	96.2	0.88	0.90	0.91
3350	2500	1790	80	402	6.3	80%	240%	9	13965	79	96.2	96.4	96.7	0.79	0.86	0.88
		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
3500	2650	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
		3580	88	473	5.9	50%	210%	13	15635	83	95.8	96.1	96.3	0.87	0.90	0.91
4000	3000	1789	88	481	5.8	70%	220%	8	16755	82	96.5	96.6	96.8	0.78	0.85	0.87
		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

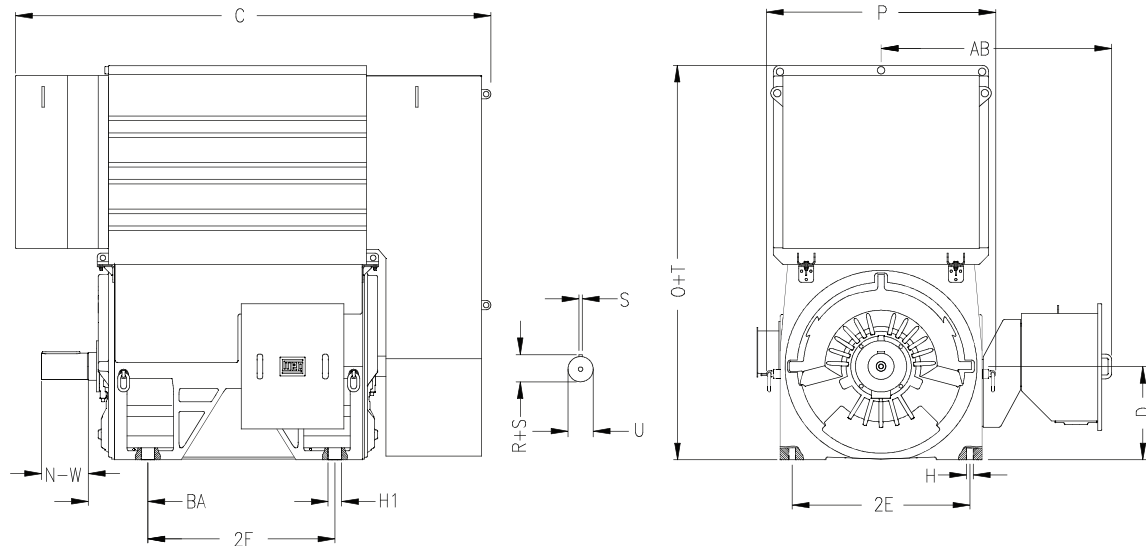
WP-II 60Hz 4160V - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)	Locked rotor current (l/l/n)	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

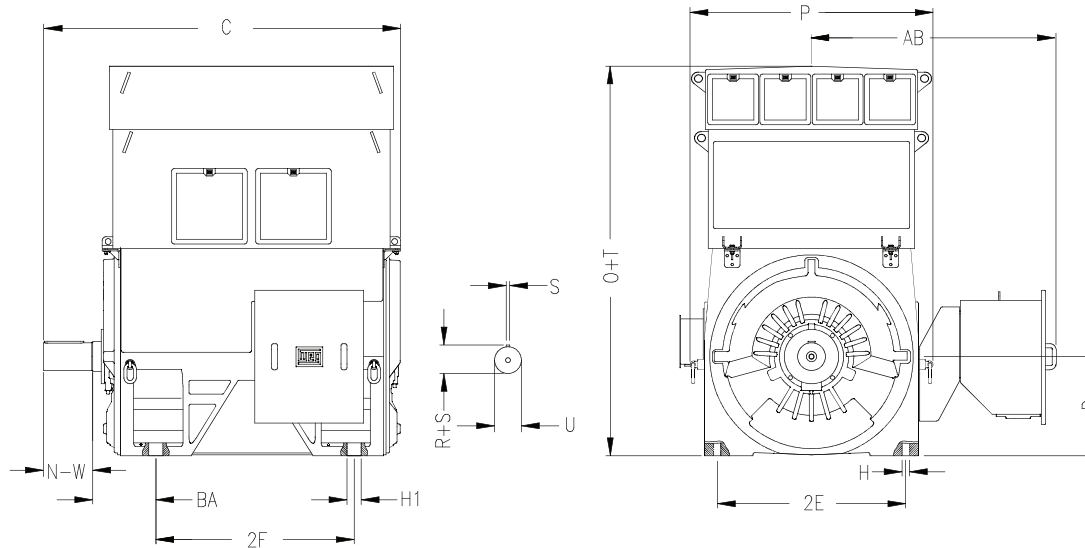


Frame	Poles	Mounting					Frame					Shaft Extension - Drive End			
		2E	2F	BA	H	H1	D	O+T	C	P	AB	U	N-W	S	R+S
70	2	34.000	36.000	11.500	1.380	2.830	17.500	77.200	97.200	44.300	52.600	4.000	8.500	1.000	4.440
	4 and 6				44.300					4.375		4.820			
80	2	38.000	40.000		1.650		20.000	83.600	100.600	48.300	54.500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

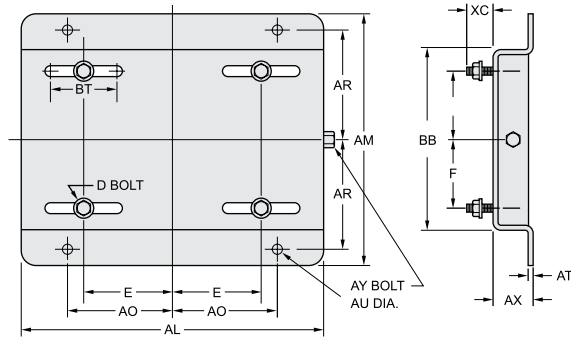
NEMA Frame	63	71	80	List Price by NEMA Frame / Equivalent IEC Frame													
				56	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/5/7	449	504/5	586/7	588/9
IEC Frame	63	71	80	-	90	100/112	132	160	180	200	225	250	280	-	315	355	
'C' Flange - ODP	•	•	•	\$59	\$96	\$119	\$159	\$228	\$508	\$680	\$1071	\$1351	\$1502	•	•	•	•
'D' Flange - 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

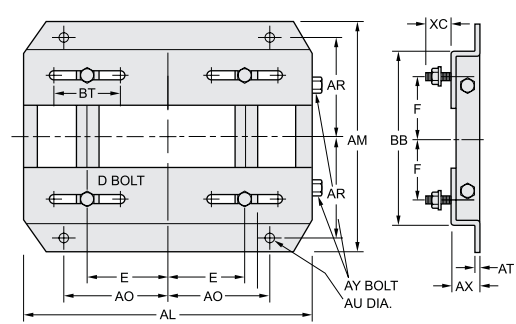
	List Price by NEMA Frame / Equivalent IEC Frame																
NEMA Frame				56	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/5/7	449	504/5	586/7	588/9
IEC Frame	63	71	80	-	90	100/112	132	160	180	200	225	250	280	-	315	355	
Fan Cover - W01	\$50	\$50	\$50	\$50	\$50	\$50	\$98	\$112	POA	POA	POA	POA	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															
587T	\$1,471	SB587DAB															

586/7T sizes available on request

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	
	Locating 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						
Lubrication	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						
Shaft	Plug		Stopping plug						
	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		Polypropylene	Polypropylene		Aluminum
		4P							Aluminum			Aluminum		
		6-12P							Polypropylene					
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	6314
		4 - 12P					6316	6316	6319	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	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

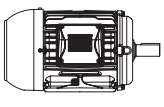
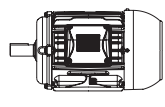
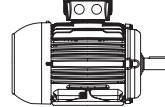
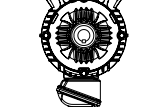
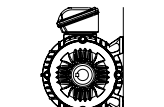
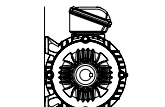
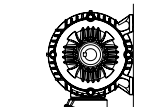
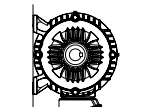
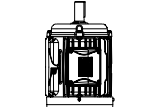
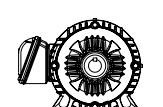
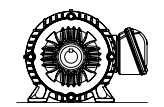
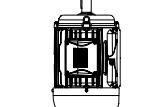
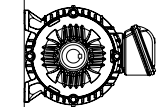
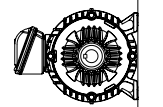
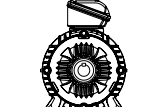
Frame				56	56H	143/5T	182/4T	213/5T	254/6T
Mechanical Features									
Nameplate Marking				CSA, cULus					
Mounting	Std, High, NEMA Premium Efficiency			F-1/B3R(D)					
Frame	Material			Rolled Steel					
Degree of Protection				IP21					
Grounding				Terminal box					Grounding lug
Cooling method				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					
Lubrication	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				Aluminum die cast					
Thermal protection				W/O					
Space heaters				W/O					

W50 Construction Features

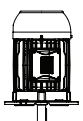
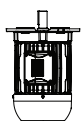
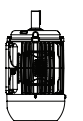
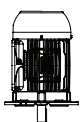
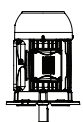
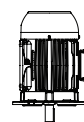
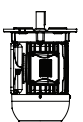
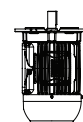
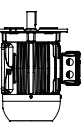
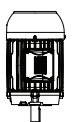
Frame			5009/10	5809/10	6806/07	6808/09	7006/07	7008/09			
			Mechanical features								
Mounting			F1								
Frame	Material		Cast Iron FC-200								
Degree of protection			IP55								
Grounding			Double grounding (1 terminal box + 1 frame)								
Cooling method			TEFC								
Fan	Material	2P 4P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

Mounting Configurations

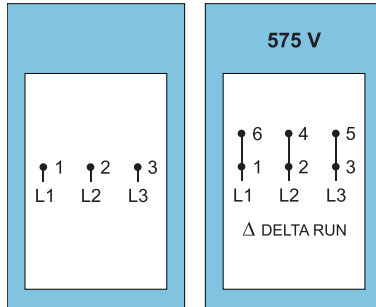
NEMA Standard Mounting Configurations

Floor mountings			Ceiling mountings		
Assembly F-1	Assembly F-2	Assembly F-3	Assembly C-1	Assembly C-2	Assembly C-3
					
Wall mountings					
Assembly W-1	Assembly W-2	Assembly W-3	Assembly W-4	Assembly W-5	Assembly W-6
					
Assembly W-7	Assembly W-8	Assembly W-9	Assembly W-10	Assembly W-11	Assembly W-12
					

IEC Standard Mounting Configurations

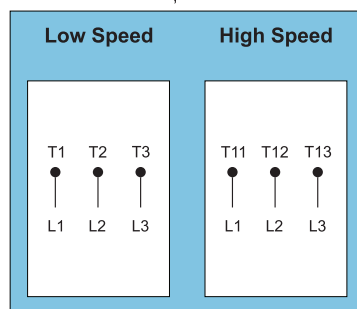
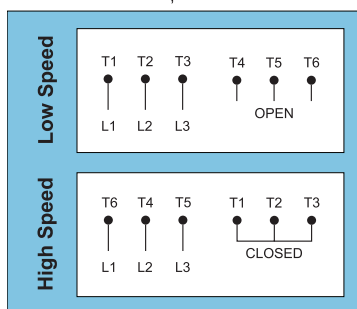
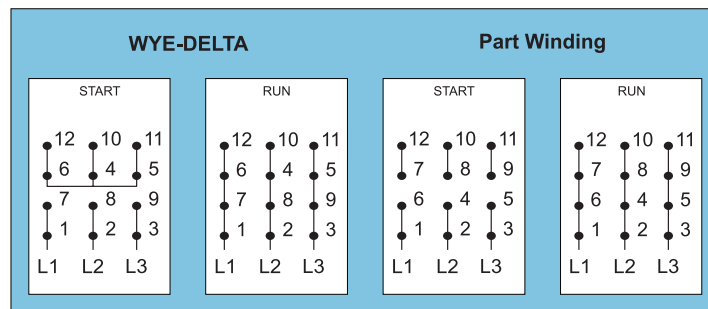
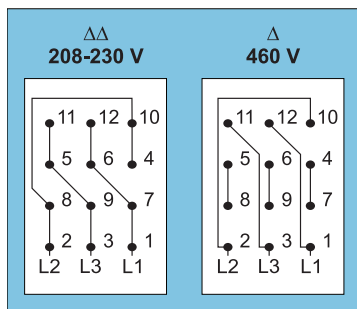
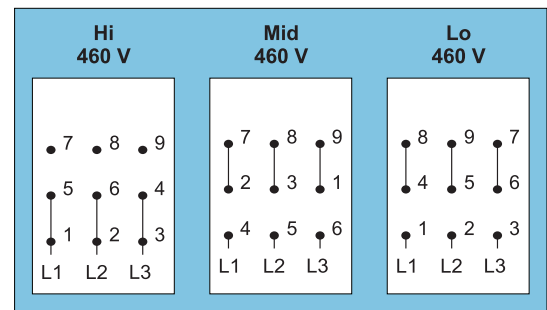
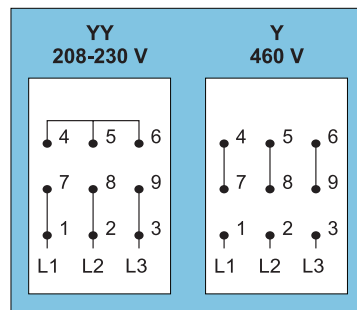
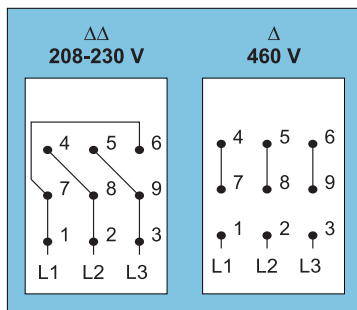
Assembly	Configuration												
	Details	Reference	B3R	B3L	B3T	B5R	B5L	B5T	B6R	B6L	B6T	B7R	B7L
	Feet	With Feet			No Feet			With Feet			With Feet		
	Mounting	Base or Rails			Flange FF			Wall			Wall		
Assembly	Configuration												
	Details	Reference	B8R	B8L	B8T	B14R	B14L	B14T	B34R	B34L	B34T	B35R	B35L
	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		V5T	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 SO ₂ . 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 SO ₂ , 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 SO ₂ , 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 SO ₂ . 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 SO ₂ . 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 15°C to 120°C, 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 15°C to 120°C, 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 15°C to 120°C, 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 15°C to 120°C, 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 15°C to 80°C, 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								

