

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14893765

Frame	: 404/5LP	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 90.7 A	Protection degree	: IP55
L. R. Amperes	: 653 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: W-6
No load current	: 34.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.11 %	Starting method	: VFD
Rated torque	: 40.8 kgfm	Approx. weight ³	: 554 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.11 kgm ²		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	94.5	95.0	95.4	Max. traction
Power Factor	0.00	0.72	0.82	0.87	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	7315BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	4895 h	3268 h
Lubricant amount	:	27 g	30 g
Lubricant type	:	Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/10/2024			1 / 2	

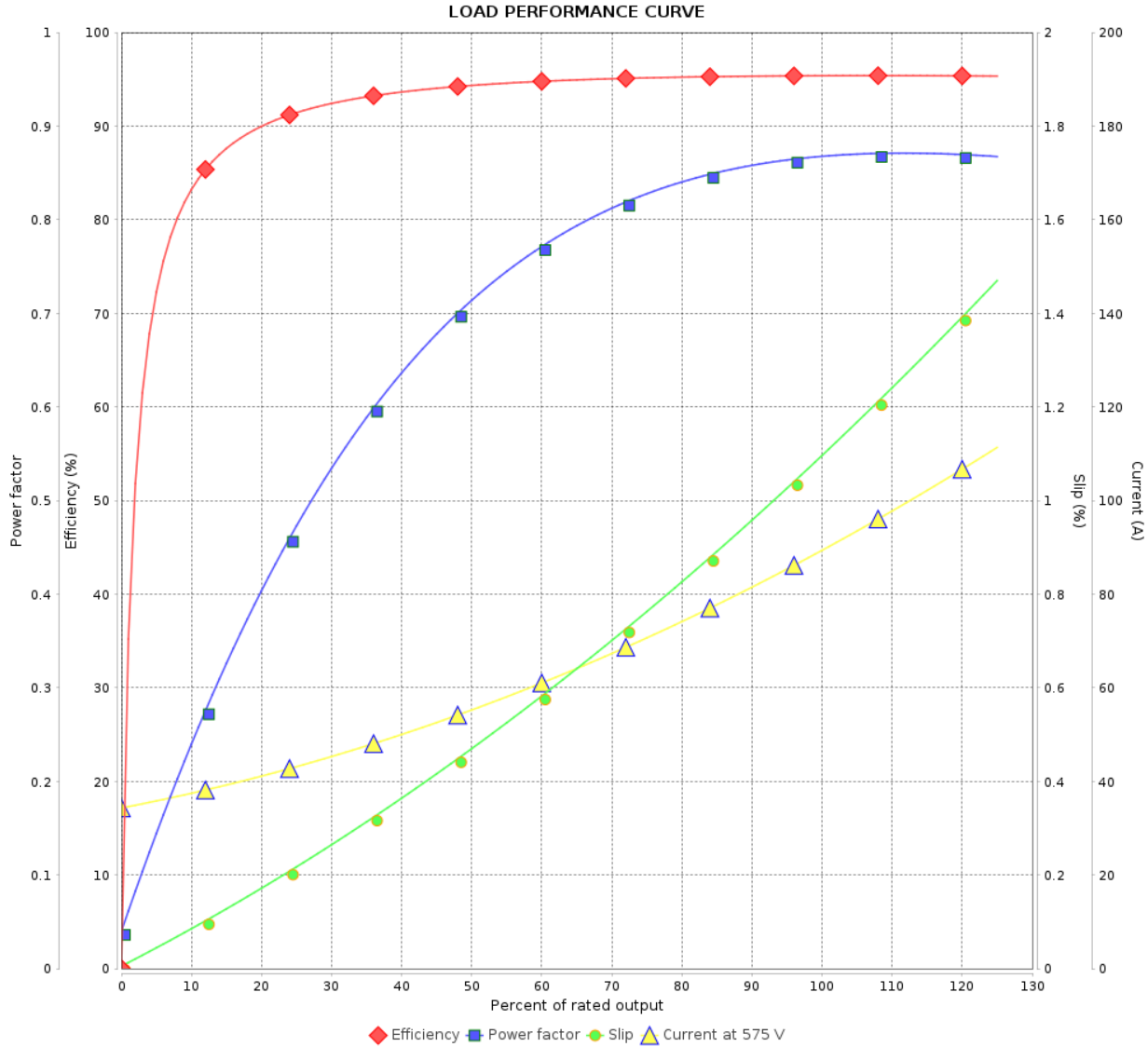
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14893765



Performance : 575 V 60 Hz 4P

Rated current	: 90.7 A	Moment of inertia (J)	: 1.11 kgm ²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	29/10/2024			

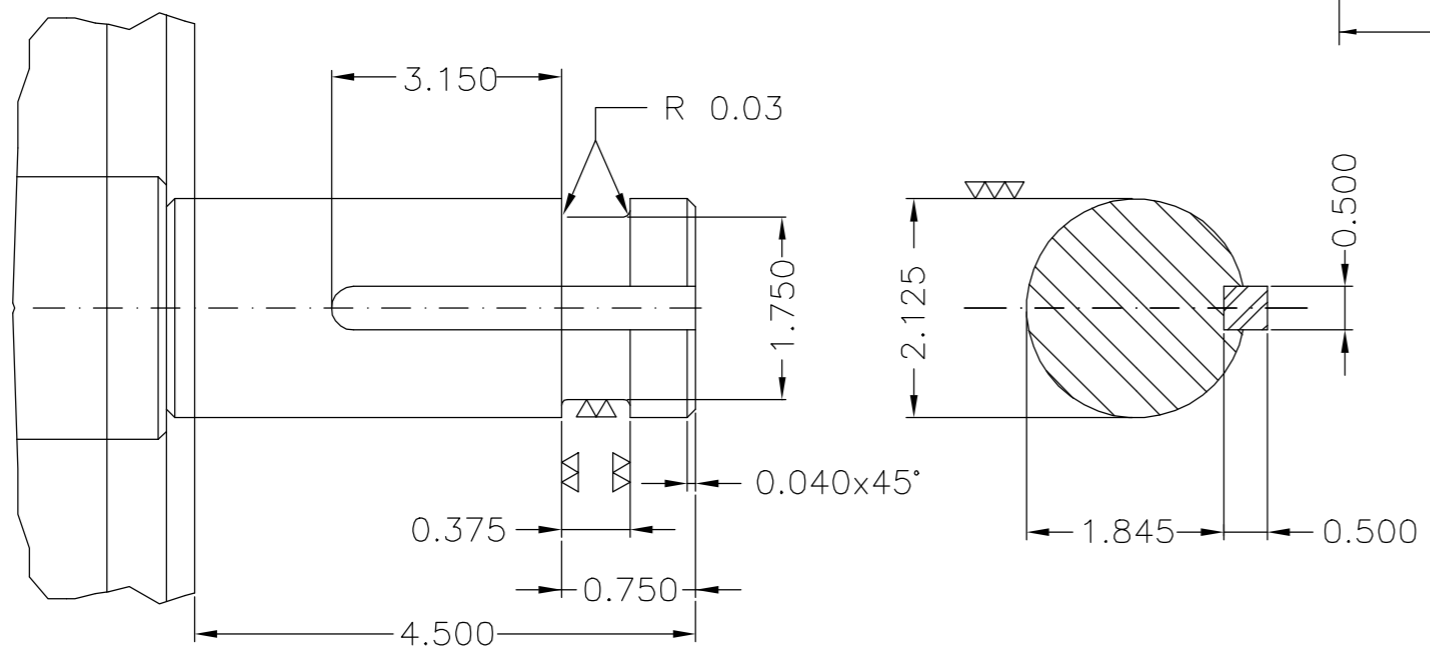
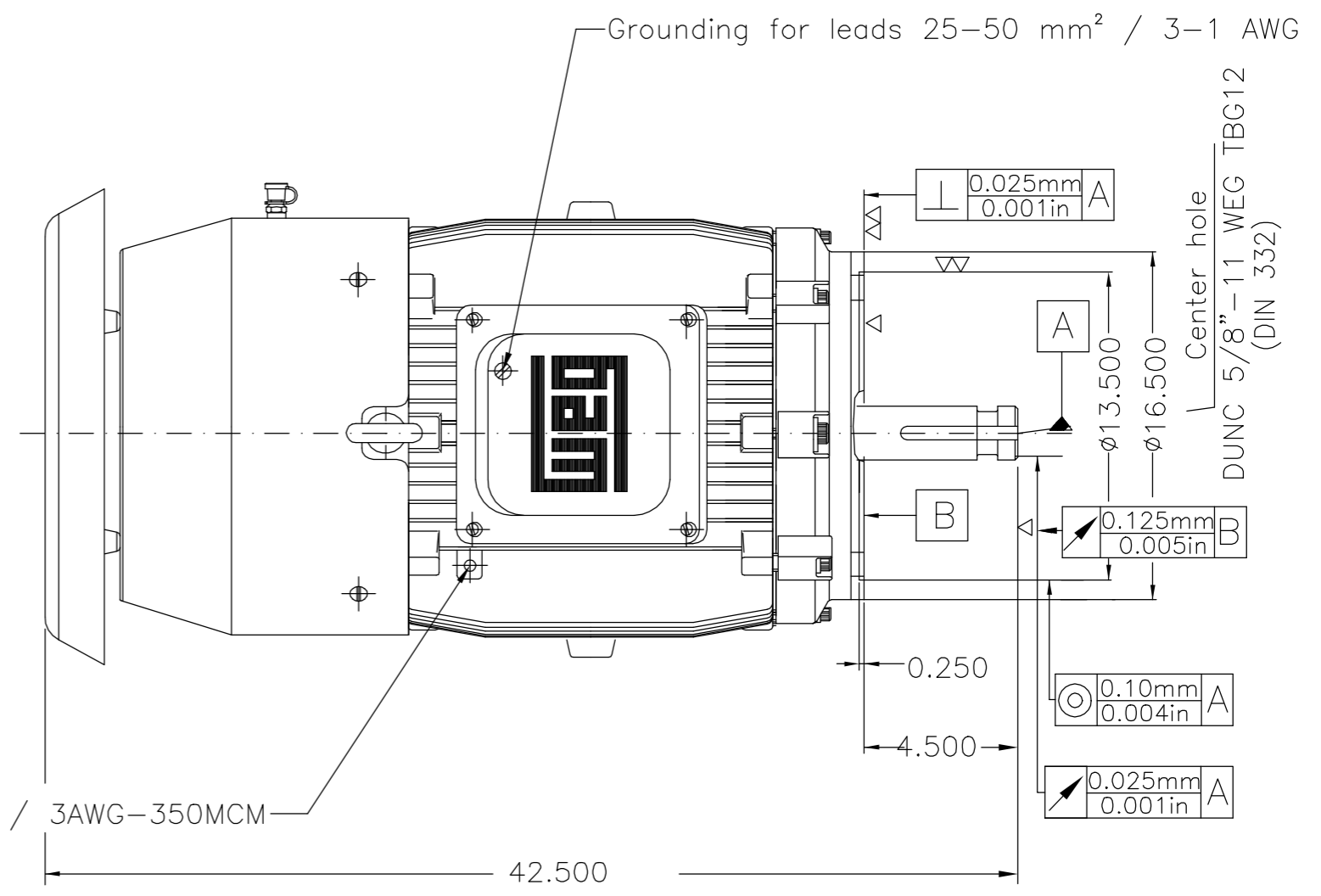
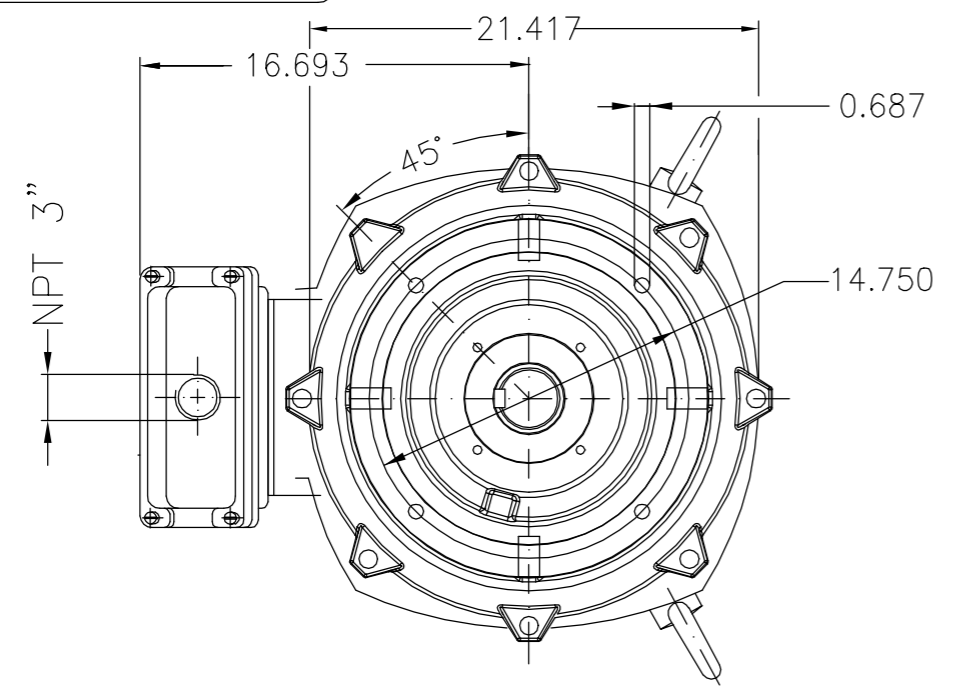
EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

Dimensões em polegada
Dimensions in inches

CERTIFIED WEG MOTORES
Certified document.
Not subject to changes.

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

ATENÇÃO/ATTENTION
MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL.
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION



Categoria A / Design A						
Cor RAL 5009 / Color RAL 5009						
Plano de pintura 203A / Painting plan 203A						
Fator de serviço 1.15 / Service factor 1.15						
Forma construtiva NEMA W-6 / Mounting NEMA W-6						
Forma construtiva V1 / Mounting V1						
V.J. PAMENSKY CANADA INC.						

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500001592859		DOCUMENTO NOVO	CLEITONGS	FERNANDOLUIS	FERNANDOLUIS	07.05.2019	00
ECM	LOC	RESUMO MODIFICAÇÃO	EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXEC. /EXECUTED	CLEITONGS	THREE-PHASE IN LINE EXTRA THRUST MOTOR FRAME 404/5LP IP55 TEFC	10006592388				
VERIF. /CHECKED	FERNANDOLUIS		000	01			
LIBER. /RELEASED	FERNANDOLUIS						
DATA LB /REL DT	07.05.2019	WMO	Jaragua do Sul	Product Engineering	FOLHA/SHEET	1 / 1	

100 HP 04 Poles 60Hz 415447013/1 ELE

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