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 kgm²		
Design	: A		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	94.5	95.0	95.4
Power Factor	0.00	0.72	0.82	0.87

Foundation loads

Max. traction

Max. compression

		Drive end	Non drive end
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
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LOAD PERFORMANCE CURVE

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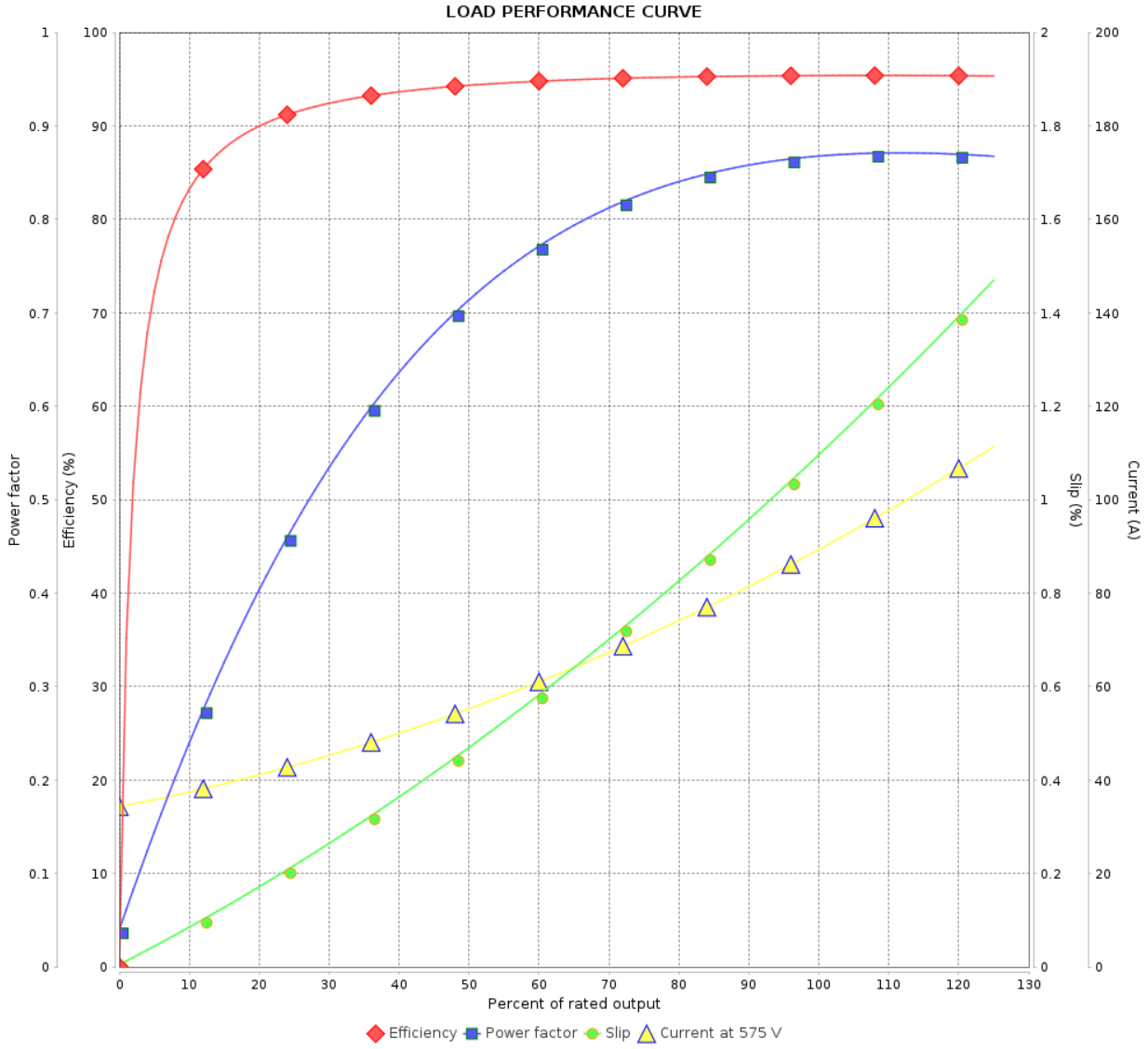
Customer	:		
Product line	: W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase	Product code :	14893765



Performance	: 575 V 60 Hz 4P		
Rated current	: 90.7 A	Moment of inertia (J)	: 1.11 kgm²
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

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

Dimensões em polegada
Dimensions in inches

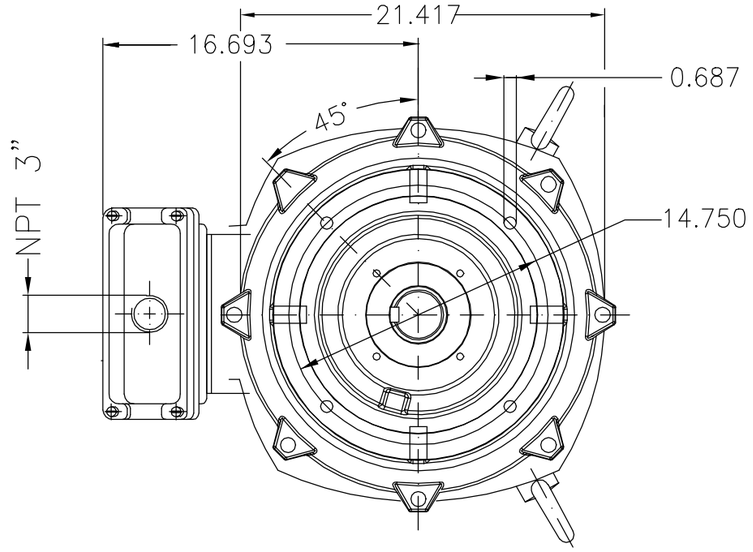
CERTIFIED
WEG MOTORES
Certified document.
Not subject to changes.

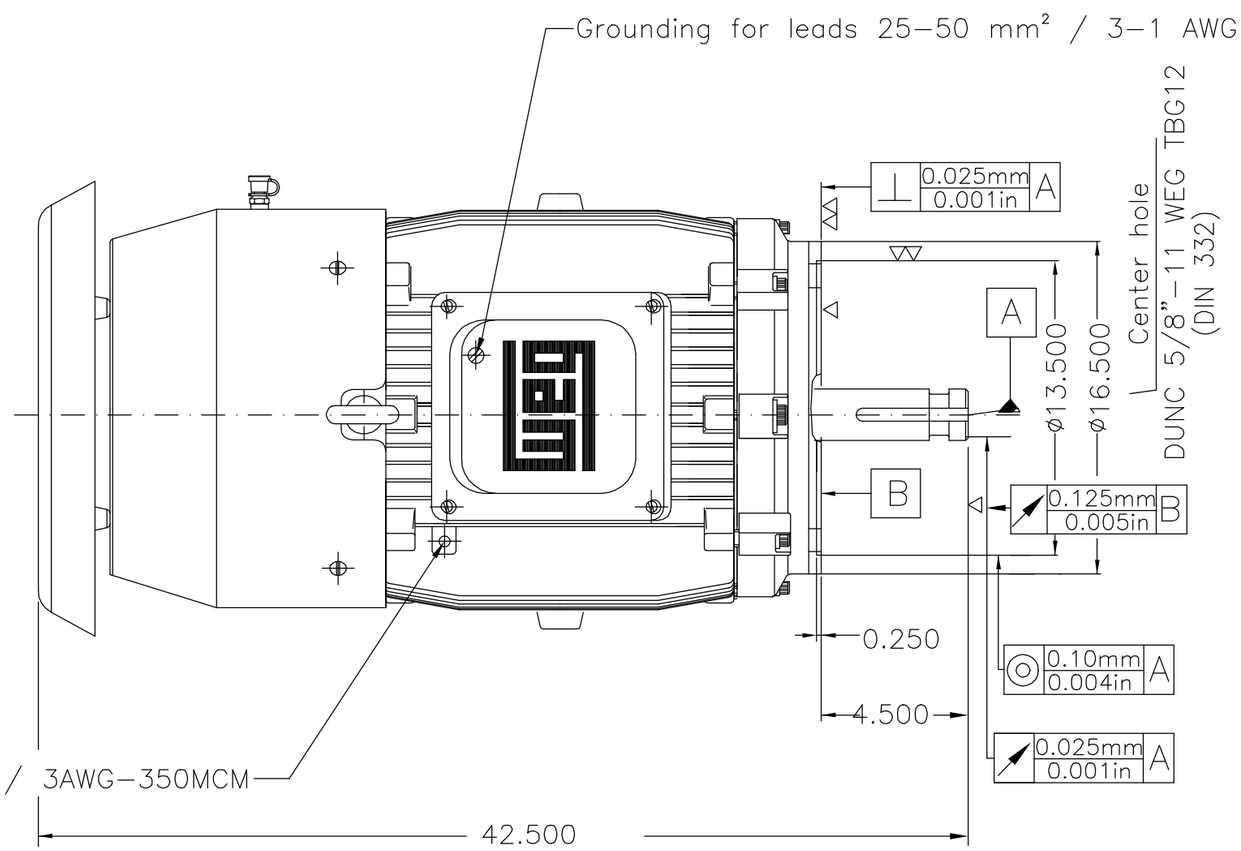
THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

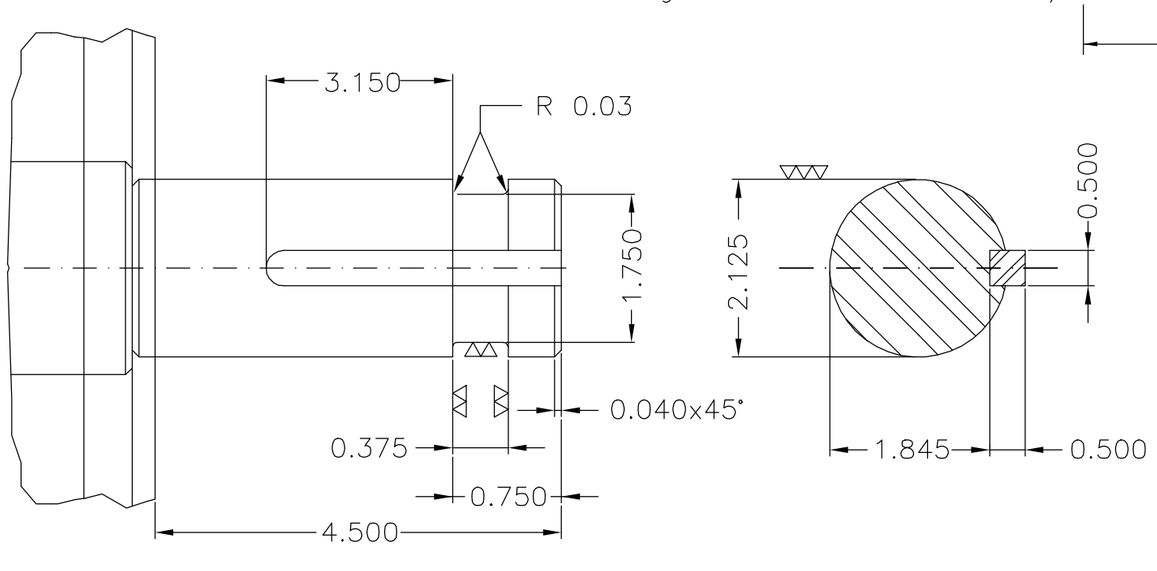
ATENÇÃO/ATTENTION

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.

ECM / ECM	LOC / LOC	RESUMO MODIFICAÇÃO / SUMMARY OF MODIFICATIONS	EXECUTADO / EXECUTED	VERIFICADO / CHECKED	LIBERADO / RELEASED	DATA / DATE	VER / VER
500001594952		ALTERADO CONF. CLAIM 415204042	RICLAV	DALTONR	DALTONR	24.05.2019	01
500001592859		DOCUMENTO NOVO	CLEITONGS	FERNANDOLUIS	FERNANDOLUIS	07.05.2019	00

EXEC. / EXECUTED	CLEITONGS	THREE-PHASE IN LINE EXTRA THRUST MOTOR	10006592388
VERIF. / CHECKED	FERNANDOLUIS	FRAME 404/5LP IP55 TEFC	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

A

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