DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14022317

Frame	: 364/5LP	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 65.9 A	Protection degree	: IP55
L. R. Amperes	: 461 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code G)	Mounting	: W-6
No load current	: 17.6 A	Rotation[1]	: CW
Rated speed	: 3560 rpm	Noise level[2]	: 85.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 15.3 kgfm	Approx. weight[3]	: 458 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.4198 kgm²		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.0	94.1	94.1
Power Factor	0.00	0.81	0.87	0.89

Foundation loads

Max. traction

Max. compression

		Drive end	Non drive end
Bearing type	:	6314	7311BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	1802 h	1621 h
Lubricant amount	:	27 g	18 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	27/10/2024		1 / 2	

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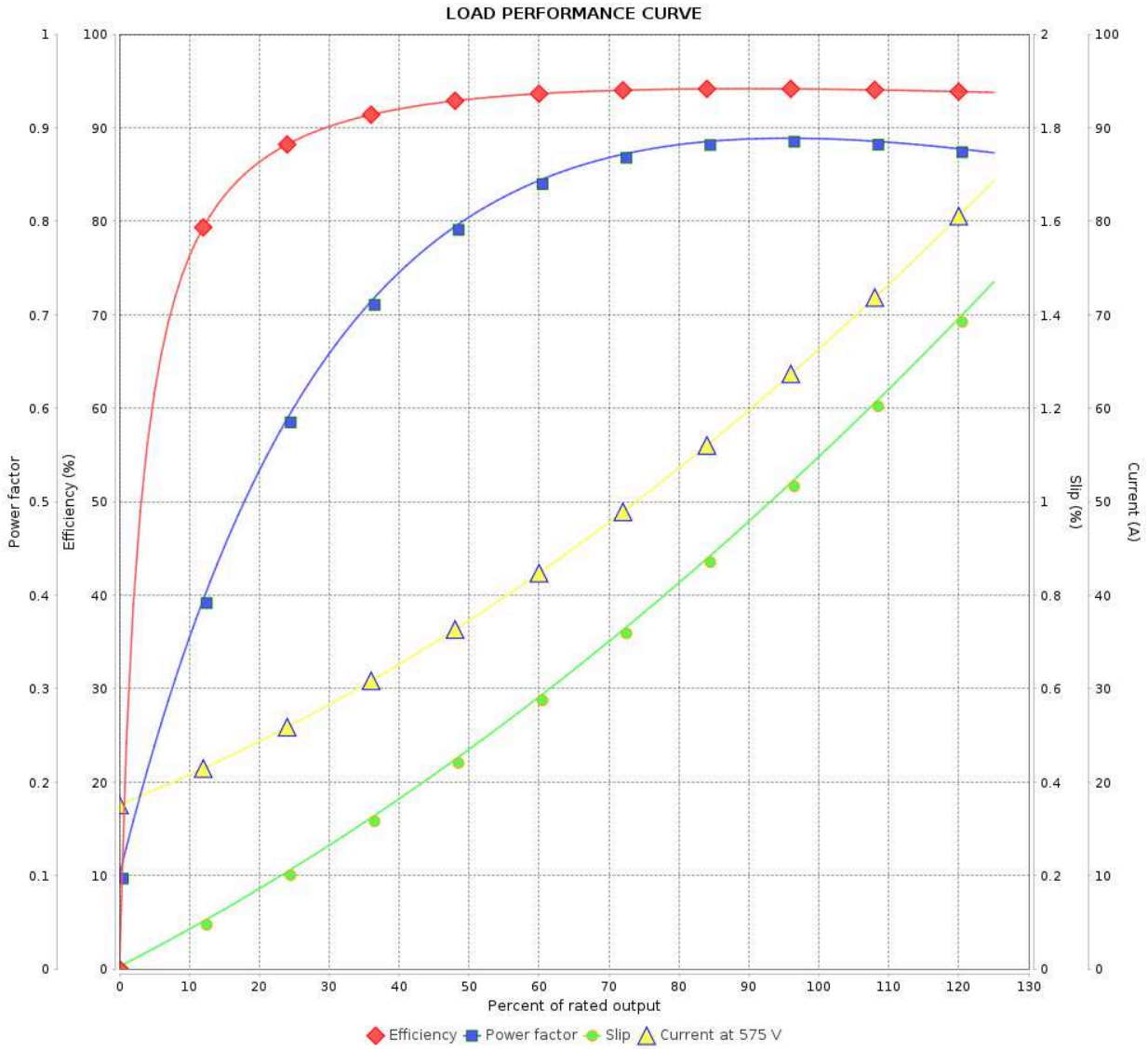
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14022317



Performance	: 575 V 60 Hz 2P		
Rated current	: 65.9 A	Moment of inertia (J)	: 0.4198 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 15.3 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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

Dimensões em polegada
Dimensions in inches

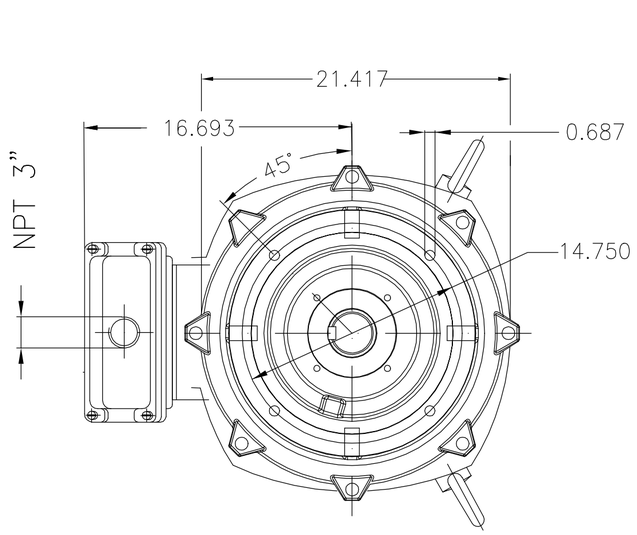
CERTIFIED
WEG MOTORES
Certified document.
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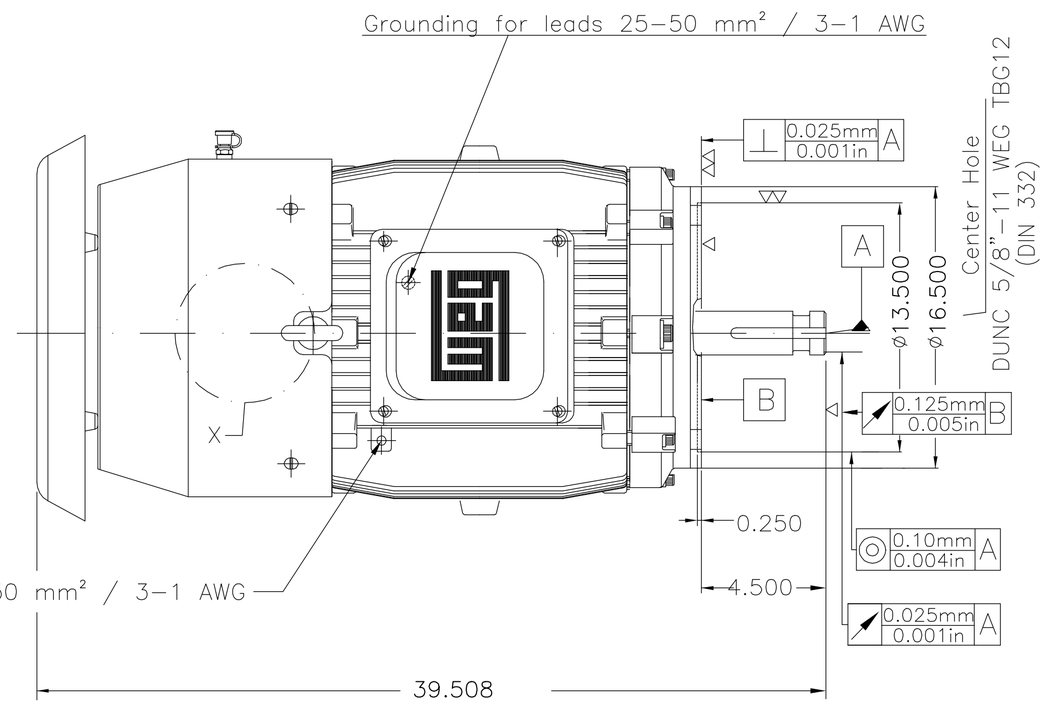
THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

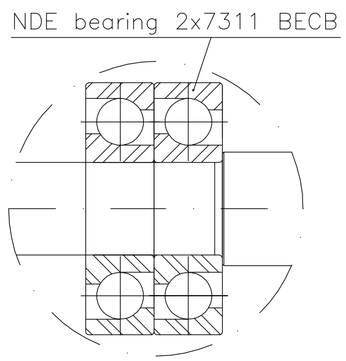
ATENÇÃO/ATTENTION

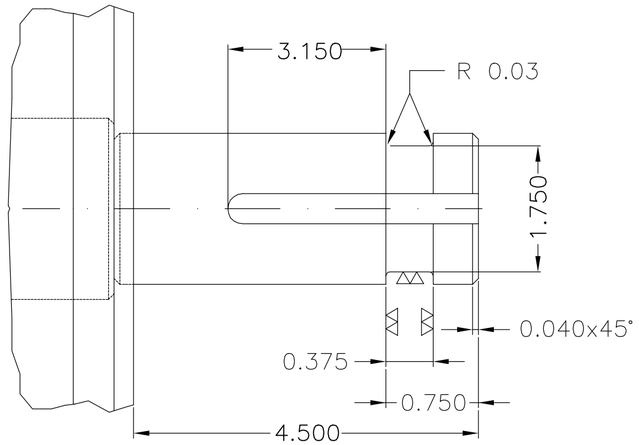
MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION

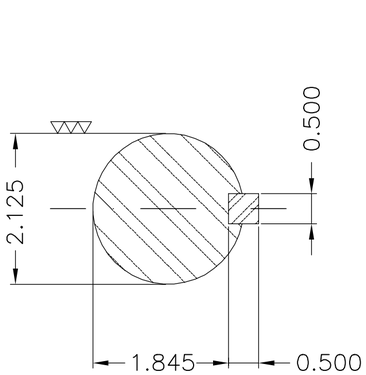
Sentido da Carga
Axial Thrust Direction











Rolamentos traseiros de contato angular (2x) 7311 BECB
(2x) 7311 BECB NDE angular contact ball bearing
Sentido de rotação horário / Clockwise rotation
Cor RAL 5009 / Color RAL 5009
Plano de pintura 203A / Painting plan 203A
Forma construtiva NEMA W-6 / Mounting NEMA W-6
Forma construtiva V1 / Mounting V1

V.J. PAMENSKY CANADA INC.

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
500001594952		ALTERADO CONF. CLAIM 415204042	RICLAV	DALTONR	DALTONR	24.05.2019	03
500001319724		ALT. CONF. CLAIM 414679447 -DETALHAMENTO	JOAOVICTOR	ANDERSONFS	ANDERSONFS	06.06.2017	02

EXECUTED	JOAOVICTOR	THREE-PHASE IN LINE EXTRA THRUST MOTOR	10004929985		
CHECKED	ADRIANAP	FRAME 364/5LP IP55 TEFC	000	03	
RELEASED	ADRIANAP				
REL DT	09.05.2017	WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

75 HP 02 Poles 60Hz 414654929/0 MEC. A

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