DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 17182672

Frame	: 404/5LP	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 100 HP (75 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	: 88.1 A	Protection degree	: IP55
L. R. Amperes	: 573 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: W-6
No load current	: 20.0 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level[2]	: 85.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 20.4 kgfm	Approx. weight[3]	: 547 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.5561 kgm²		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.6	95.0	95.0
Power Factor	0.00	0.85	0.89	0.90

Foundation loads

Max. traction : 0 kgf

Max. compression : 0 kgf

		Drive end	Non drive end
Bearing type	:	6314 C3	7311BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	1802 h	1621 h
Lubricant amount	:	27 g	18 g
Lubricant type	:	Mobil Polyrex EM	

Notes
IN LINE EXTRA THRUST
NEMA PREMIUM EFFICIENCY

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

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Checked by			Page	Revision
Date	20/07/2026		1 / 2	

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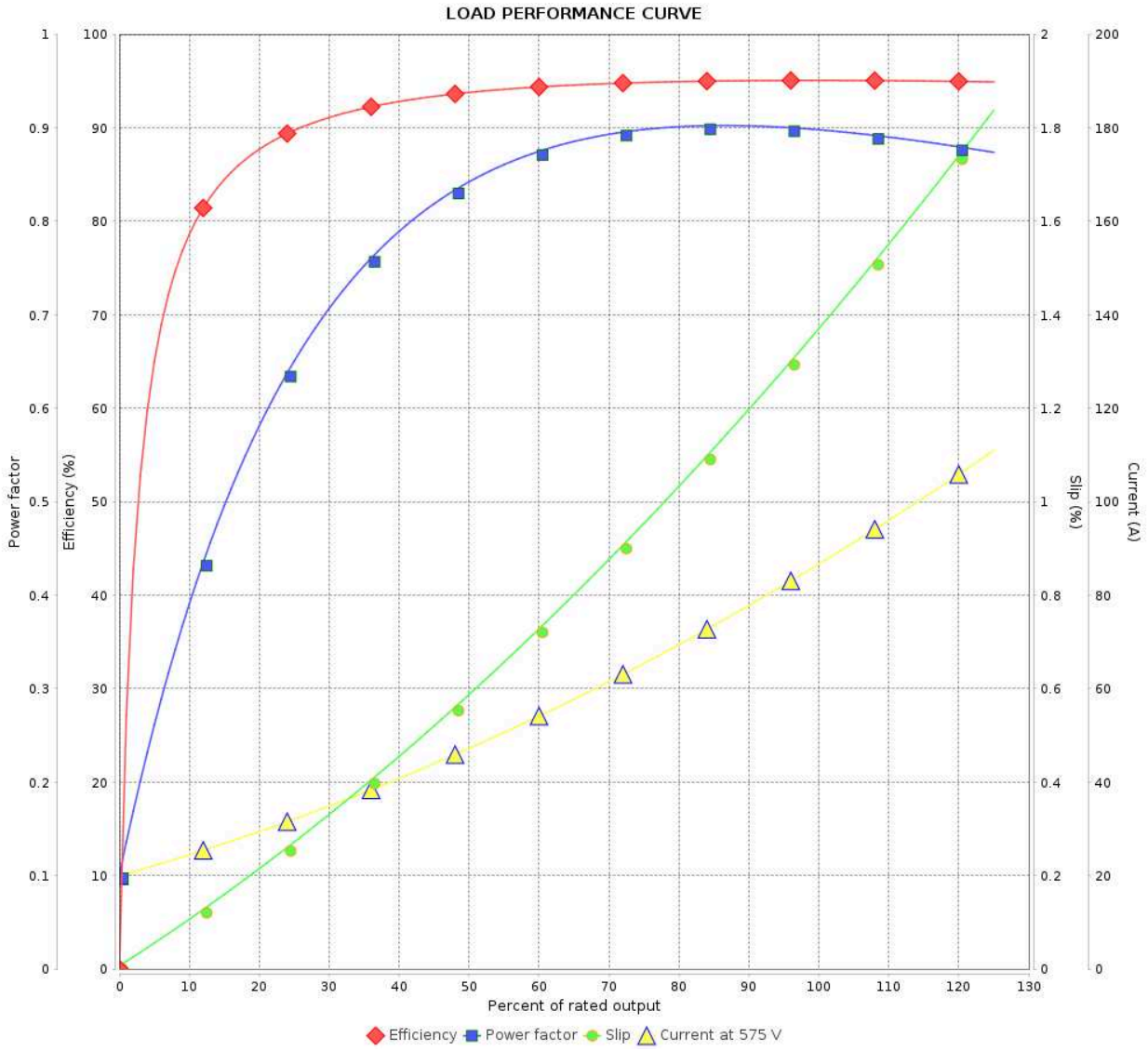
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 17182672



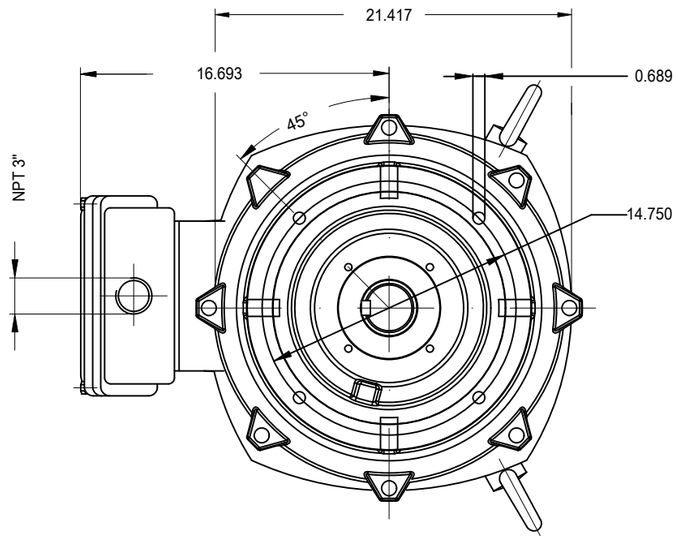
Performance	: 575 V 60 Hz 2P		
Rated current	: 88.1 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 20.4 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

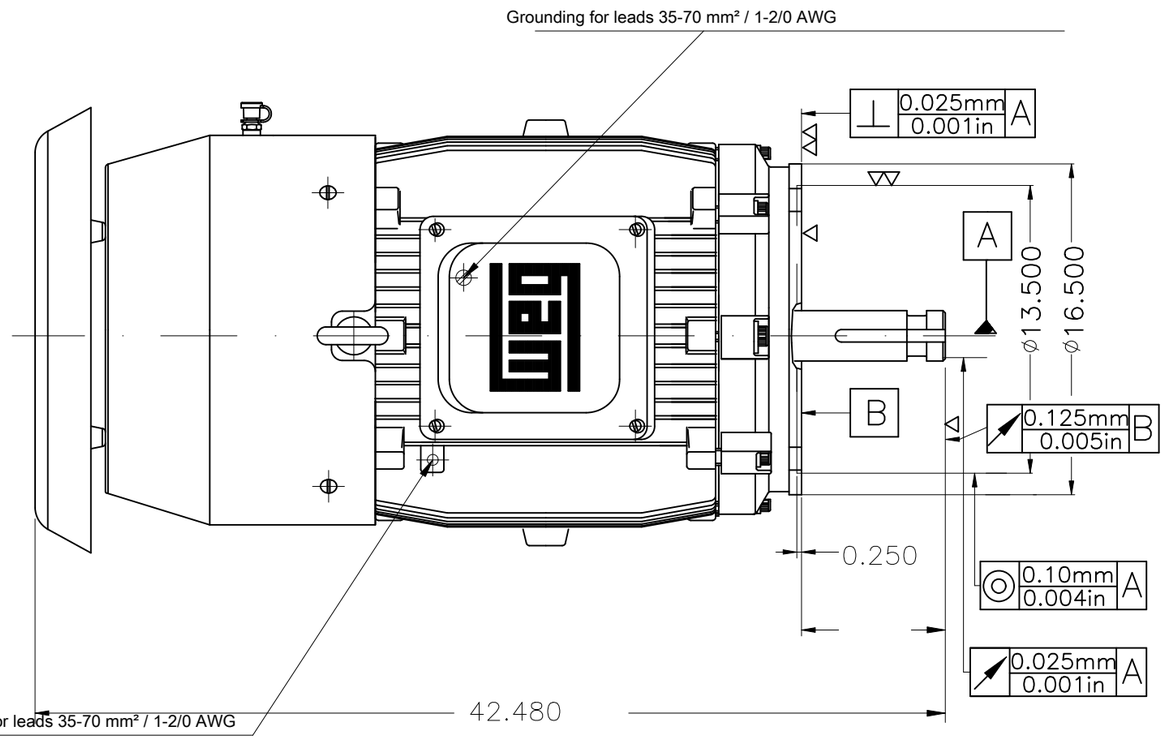
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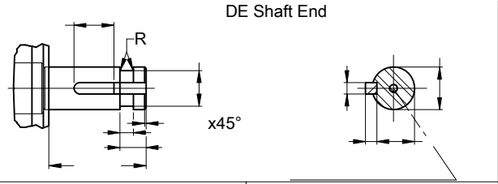
ATENÇÃO/ATTENTION
MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION





Plastic flat plug
Shaft material - SAE/ABNT 1040/45
B key
With drip cover
Fan cover - steel plate
NDE sealing - lip seal
Sealing - oil seal ring
Without epoxi in the cables outlet
Grease - Mobil Polyrex EM
Bearing cap
C3 DE bearing
Without terminal block
Without overload protector at bearing
Without Space Heaters
Without thermal protection on bearings
Without alarm thermal protection
Without switch off thermal protection
Rubber drain plug
With grease fitting
Aluminum fan
Double grounding
Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V1

DE Shaft End



100 HP 02 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR IN LINE EXTRA THRUST NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5LP IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches
XME A3

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