

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 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.6	95.0	95.0	Max. traction	: 0 kgf
Power Factor	0.00	0.85	0.89	0.90	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
Performed by				
Checked by				
Date	20/07/2026			

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LOAD PERFORMANCE CURVE

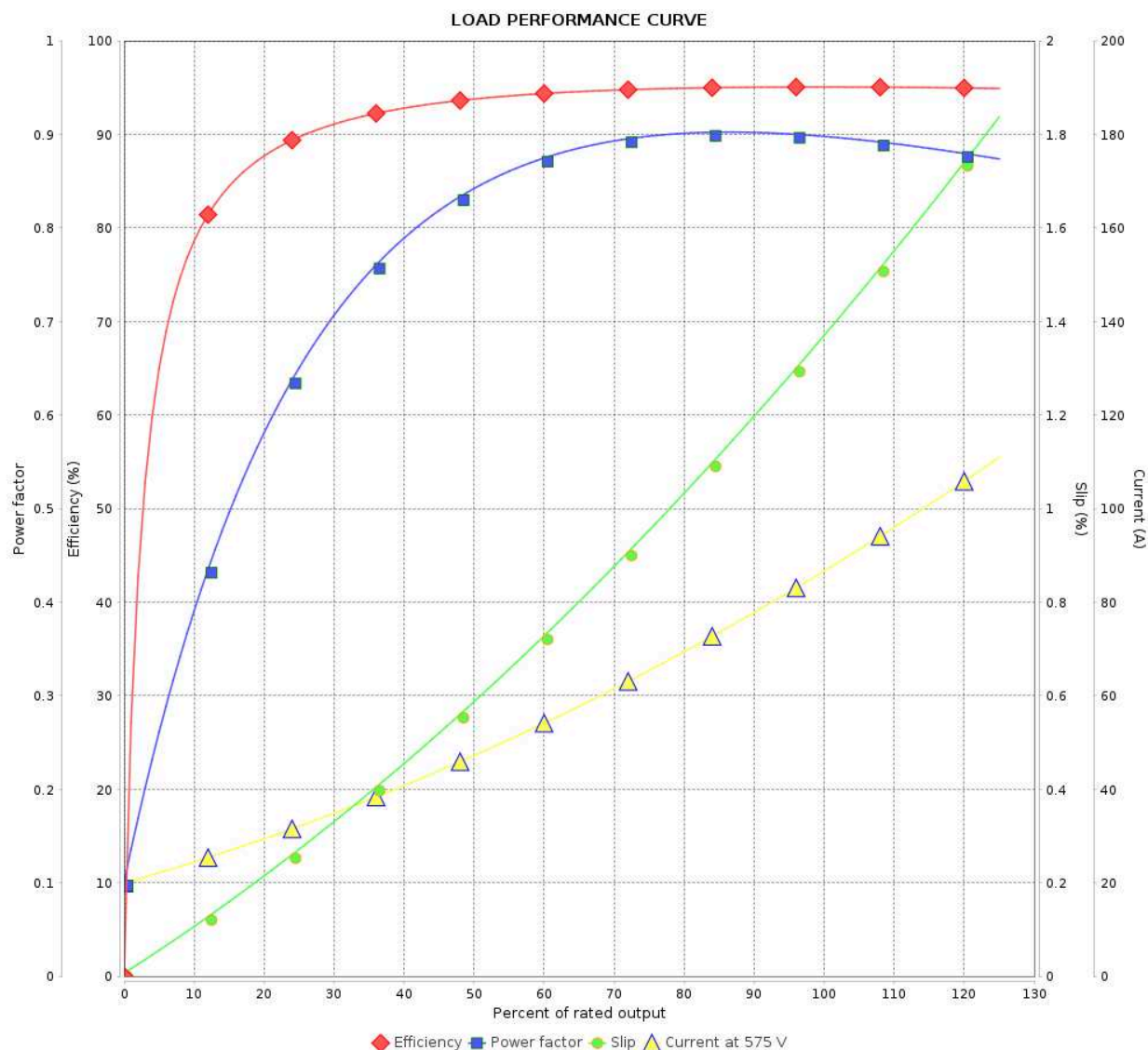
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Premium Efficiency Three-Phase

Product code : 17182672



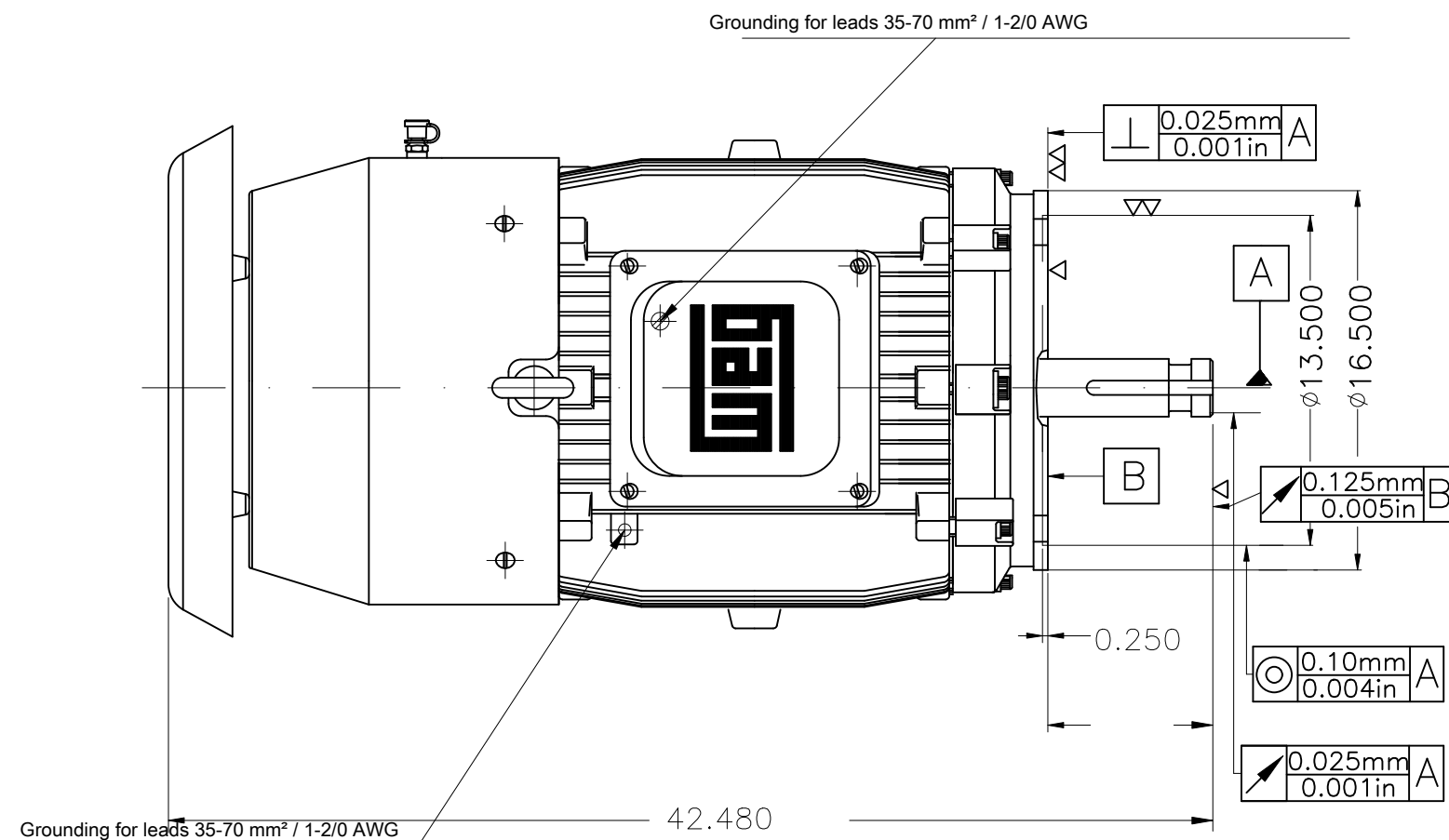
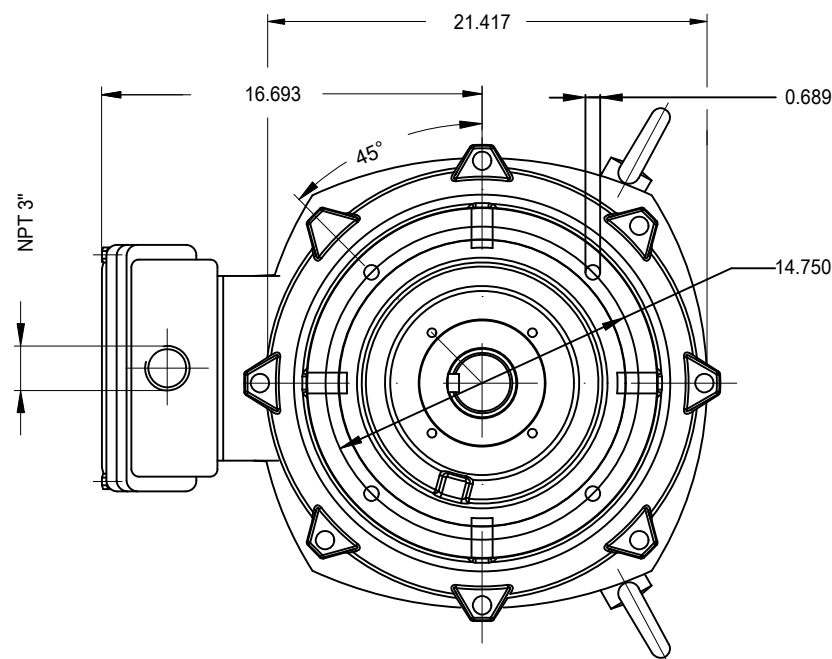
Performance : 575 V 60 Hz 2P

Rated current : 88.1 A
LRC : 6.5
Rated torque : 20.4 kgfm
Locked rotor torque : 250 %
Breakdown torque : 280 %
Rated speed : 3550 rpm

Moment of inertia (J) : 0.5561 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
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ATENÇÃO/ATTENTION
 MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
 MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION

[illegible]