

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 19092277

Frame	: 215LP	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 7.5 HP (5.5 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	: 6.86 A	Protection degree	: IP55
L. R. Amperes	: 48.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code H)	Mounting	: W-6
No load current	: 1.83 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3535 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.81 %	Starting method	: Direct On Line
Rated torque	: 1.54 kgfm	Approx. weight ³	: 109 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0200 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	85.5	88.5	89.5	Max. traction : 0 kgf
Power Factor	0.00	0.78	0.87	0.90	Max. compression : 0 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.0	8.2	7.4	5.8	3.2	2.1	1.2

	Drive end	Non drive end
Bearing type	: 6309	7306BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 7898 h	8437 h
Lubricant amount	: 13 g	7 g
Lubricant type	Mobil Polyrex EM	

Notes

In Line Extra Thrust Motor
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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LOAD PERFORMANCE CURVE

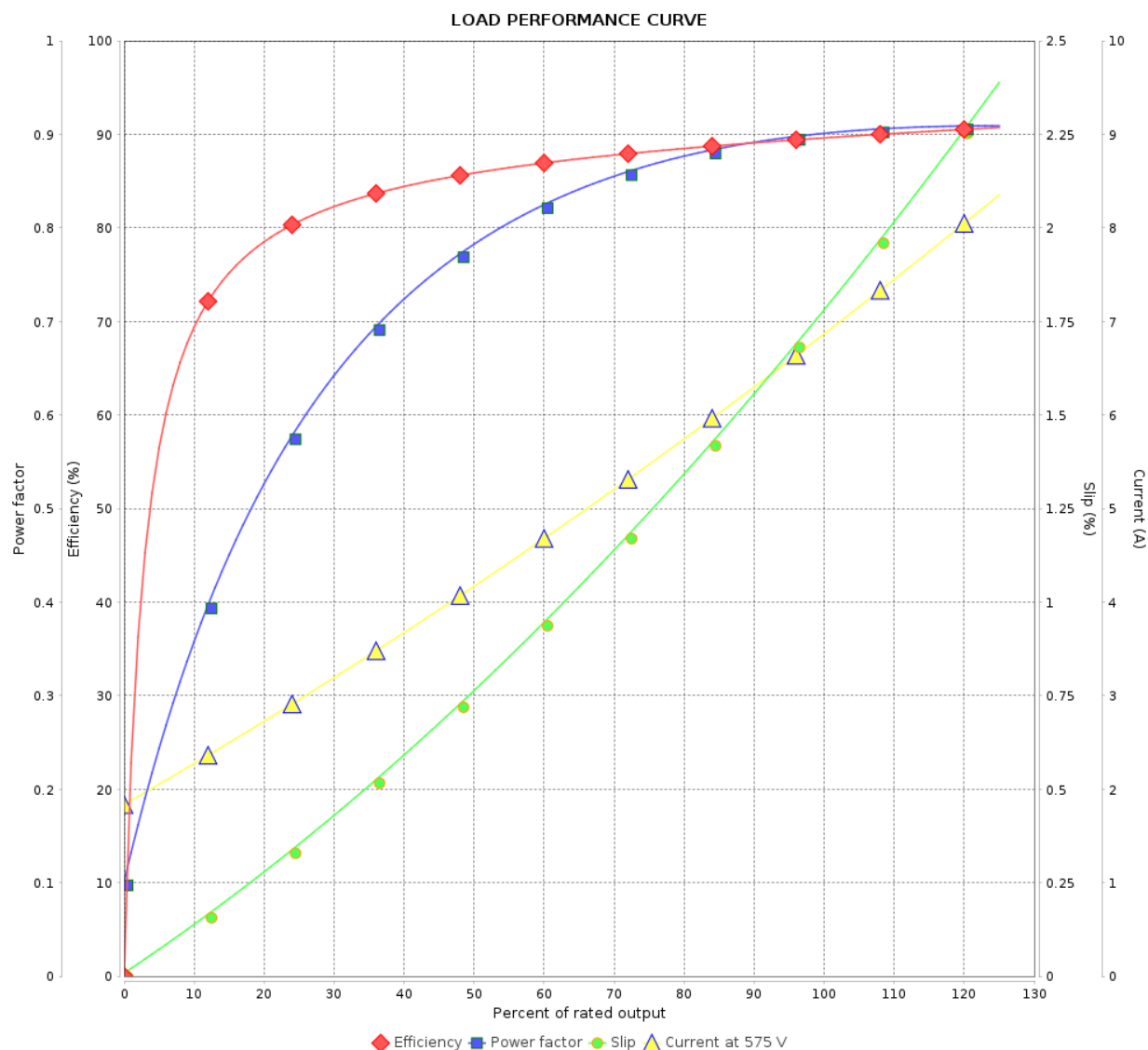
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Premium Efficiency Three-Phase

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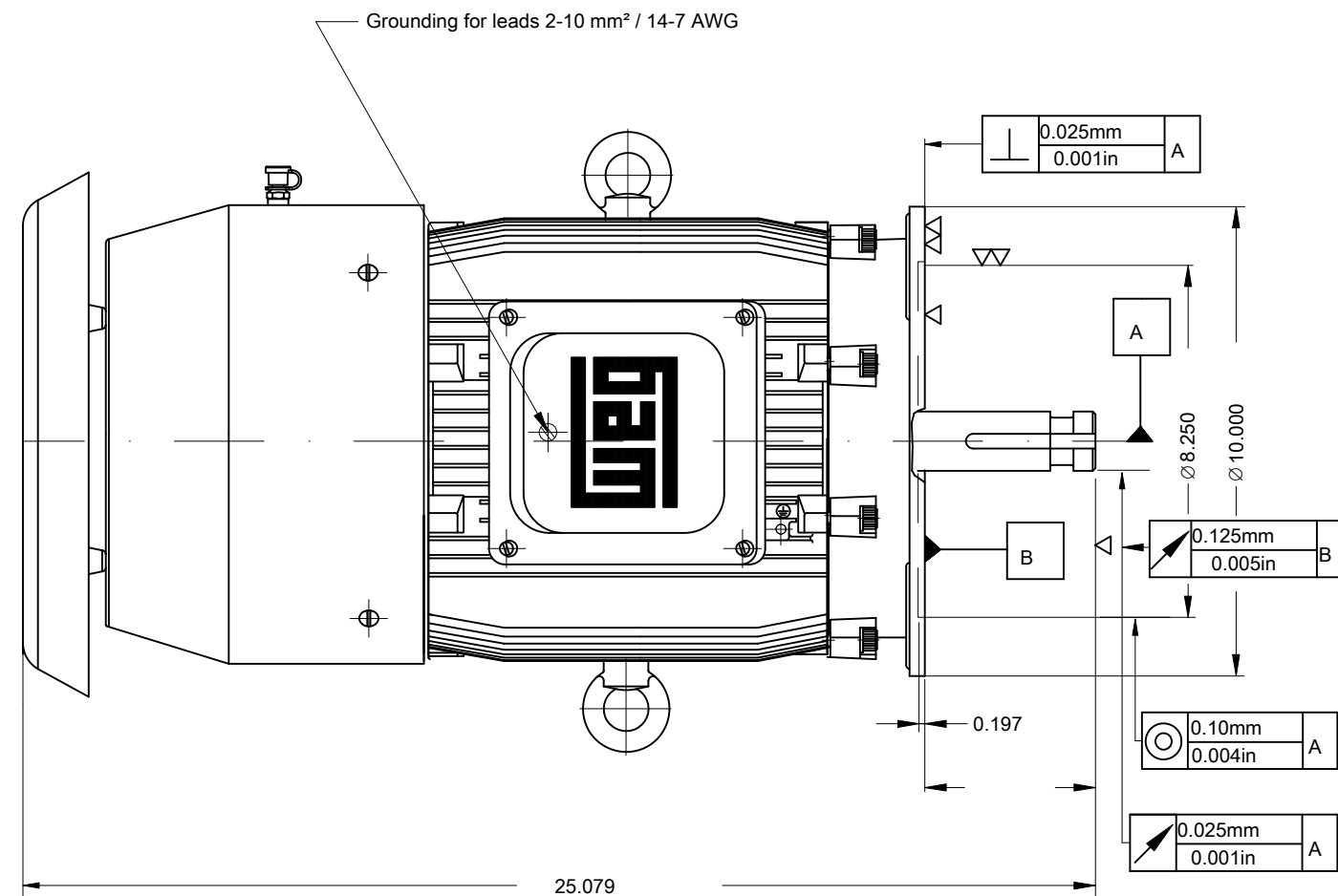
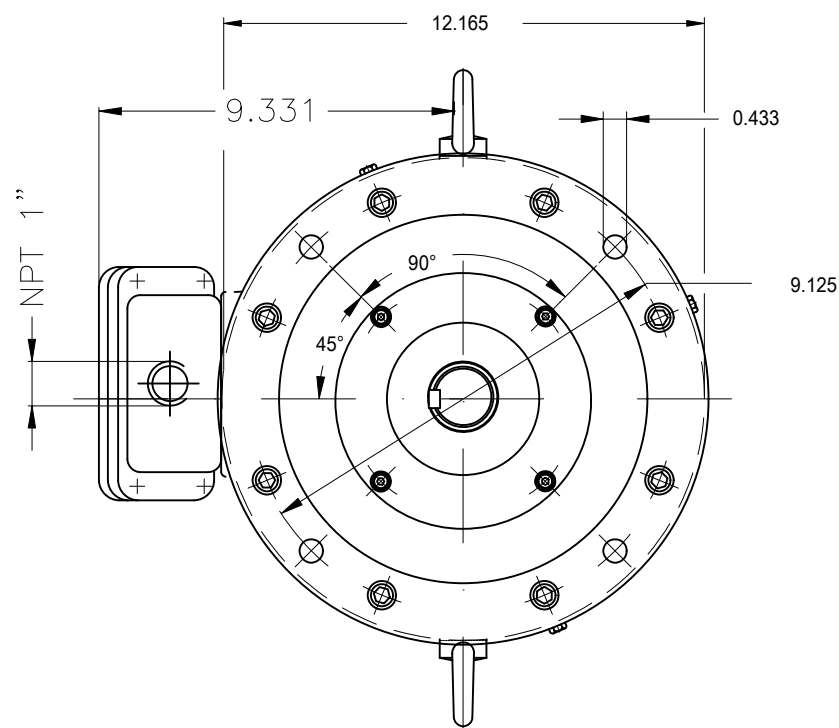
Performance : 575 V 60 Hz 2P

Rated current : 6.86 A
LRC : 7.0
Rated torque : 1.54 kgfm
Locked rotor torque : 220 %
Breakdown torque : 300 %
Rated speed : 3535 rpm

Moment of inertia (J) : 0.0200 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
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

[illegible]