

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

LOAD PERFORMANCE CURVE

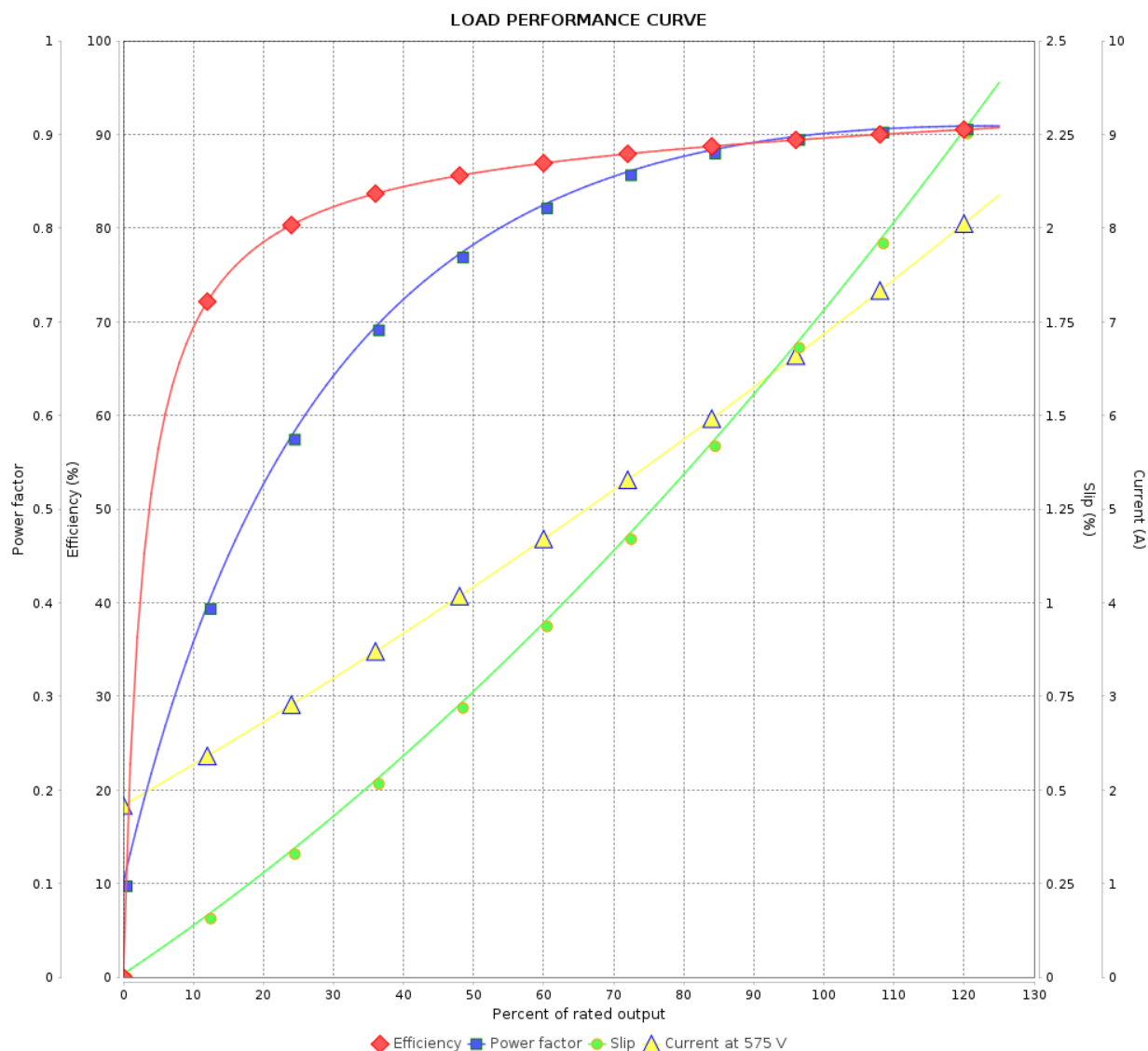
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 19092277

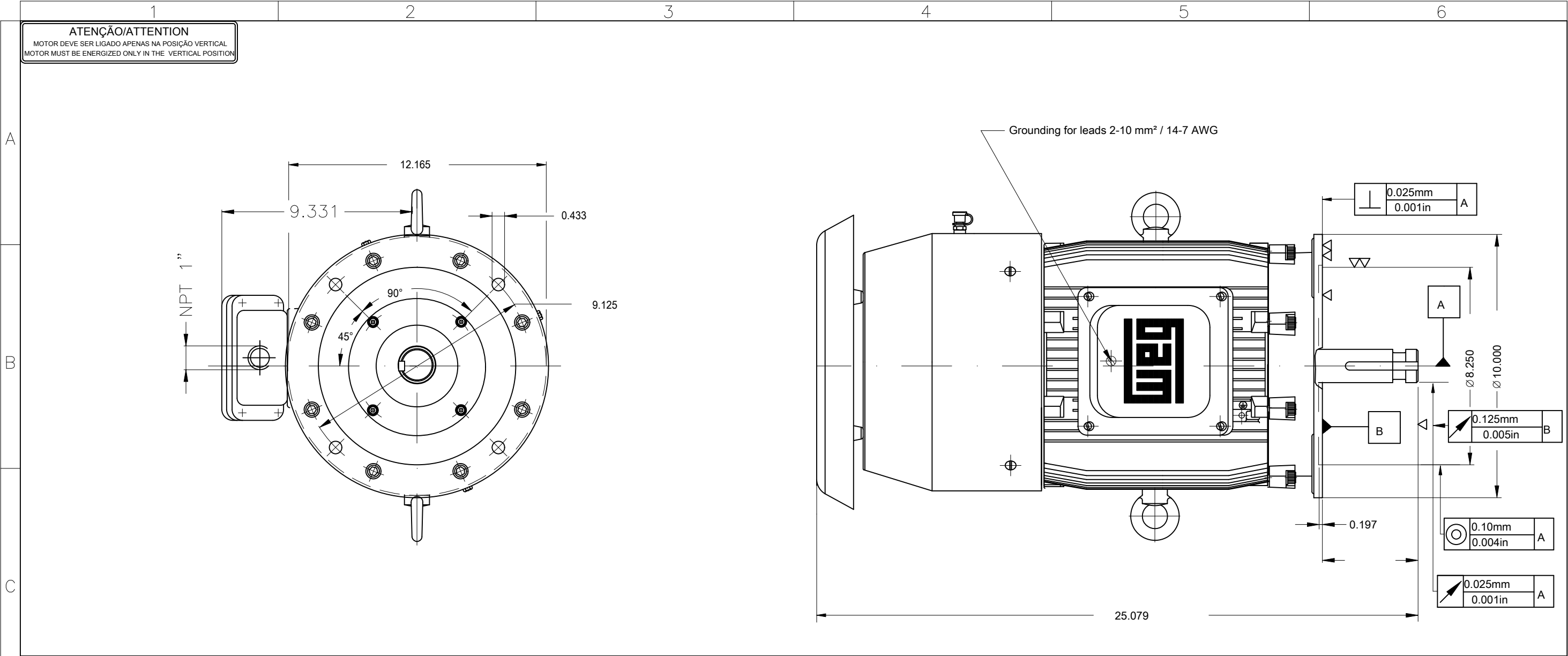


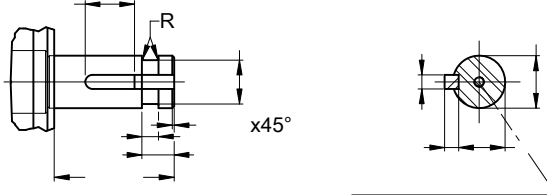
Performance : 575 V 60 Hz 2P

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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D	Reduced balancing with half key	DE Shaft End 											
	Packing - crate												
	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												
	Without terminal block												
E	Without overload protector at bearing			7.5 HP 02 Poles 60 Hz									
	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												
	Color RAL 5009												
	Painting plan 207A												
Mounting NEMA W-6													
Mounting V1													
				7.5 HP 02 Poles 60 Hz									