

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15046201

Frame	: 286LP	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 28.8 A	Protection degree	: IP55
L. R. Amperes	: 228 A	Cooling method	: IC411 - TEFC
LRC	: 7.9x(Code J)	Mounting	: W-6
No load current	: 11.6 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 12.3 kgfm	Approx. weight ³	: 232 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2175 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	93.0	93.6	93.6	Max. traction
Power Factor	0.00	0.66	0.77	0.82	Max. compression

	Drive end	Non drive end
Bearing type	: 6212	7310BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 12541 h	10618 h
Lubricant amount	: 13 g	15 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		Page Revision 1 / 2		
Checked by				
Date	29/10/2024			

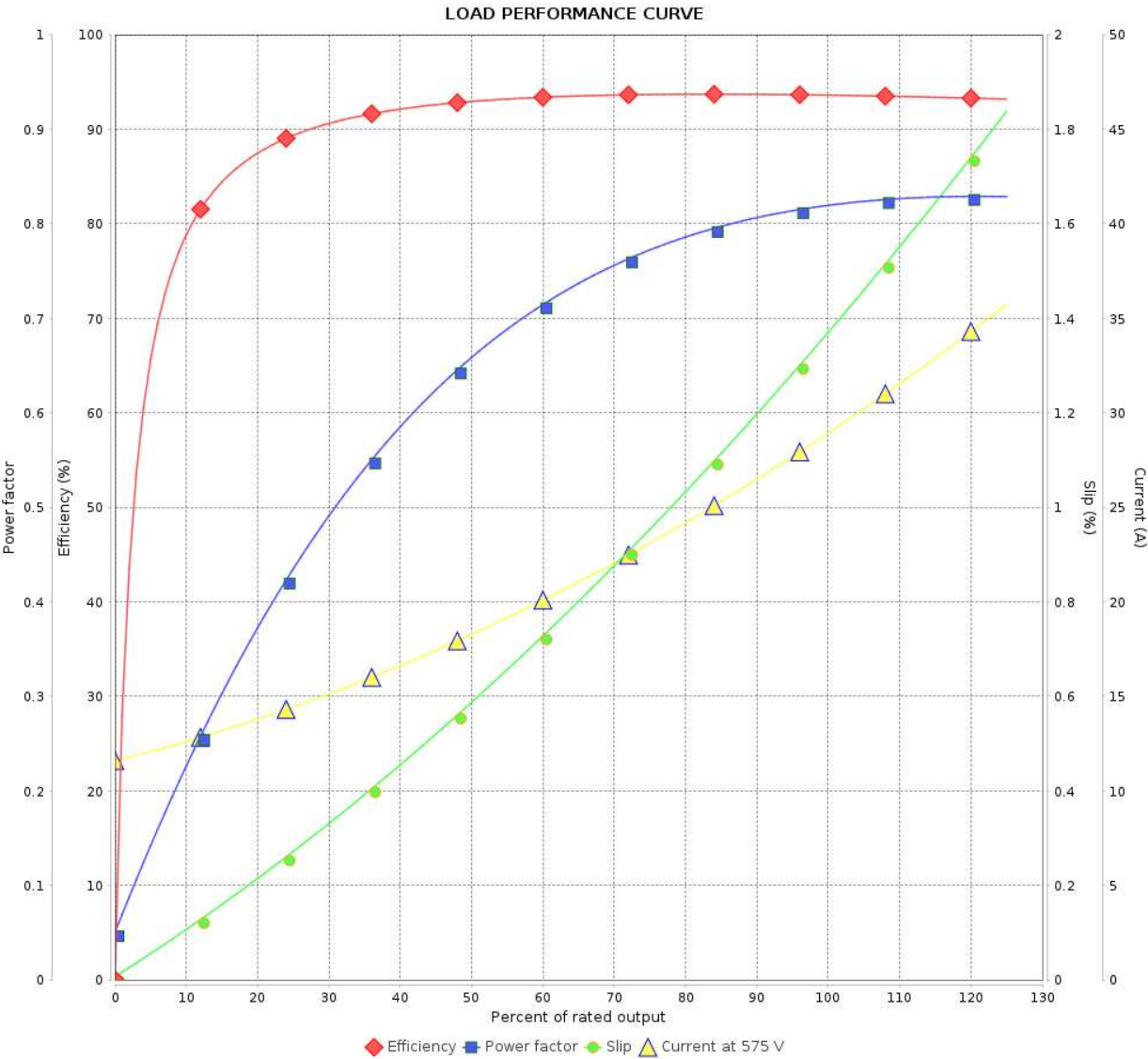
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

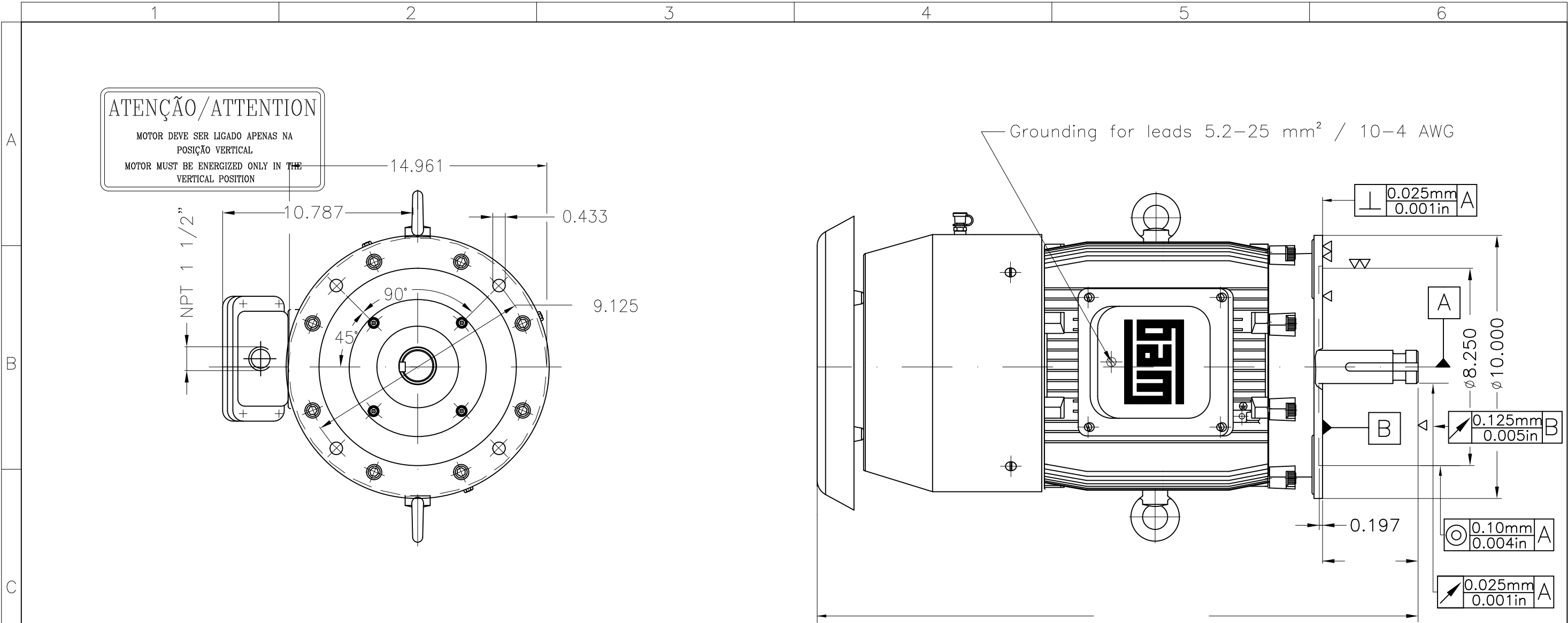
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Performance : 575 V 60 Hz 4P

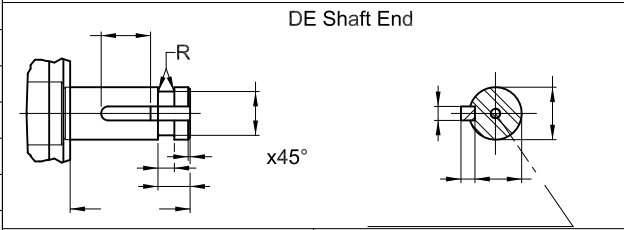
Rated current	: 28.8 A	Moment of inertia (J)	: 0.2175 kgm ²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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D	Sealing - oil seal ring
	Rubber drain plug
	Without switch off thermal protection
	B key
	Grease - Mobil Polyrex EM
	Plastic flat plug
	Class F Insulation - 80K temperature rise
	Without Space Heaters
	Shaft material - SAE/ABNT 1040/45
	Dipping impregnation - polyester
	Without terminal block
	NDE sealing - lip seal
	Aluminum fan
	Bearing cap
	Reduced balancing with half key

E	Without epoxi in the cables outlet
	Certification CSA/UL
	Packing - crate
	Without thermal protection on bearings
	With grease fitting
	Color RAL 5009
	Painting plan 203A
	Service factor 1.25
	Mounting NEMA W-6
	Mounting V1



30 HP 04 Poles 60 Hz										A