

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 17114236

Frame	: 213LP	Locked rotor time	: 64s (cold) 36s (hot)
Output	: 5 HP (3.7 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	: 5.19 A	Protection degree	: IP55
L. R. Amperes	: 34.3 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code H)	Mounting	: W-6
No load current	: 2.31 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 2.06 kgfm	Approx. weight ³	: 93.0 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0413 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	89.5	89.5	89.5	Max. traction : 0 kgf
Power Factor	0.00	0.63	0.75	0.80	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)
11.4	9.3	8.4	6.2	4.2	3.0	2.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	7306BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	14395 h	16157 h
Lubricant amount	:	13 g	7 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		Page Revision 1 / 2		
Checked by				
Date	20/07/2026			

LOAD PERFORMANCE CURVE

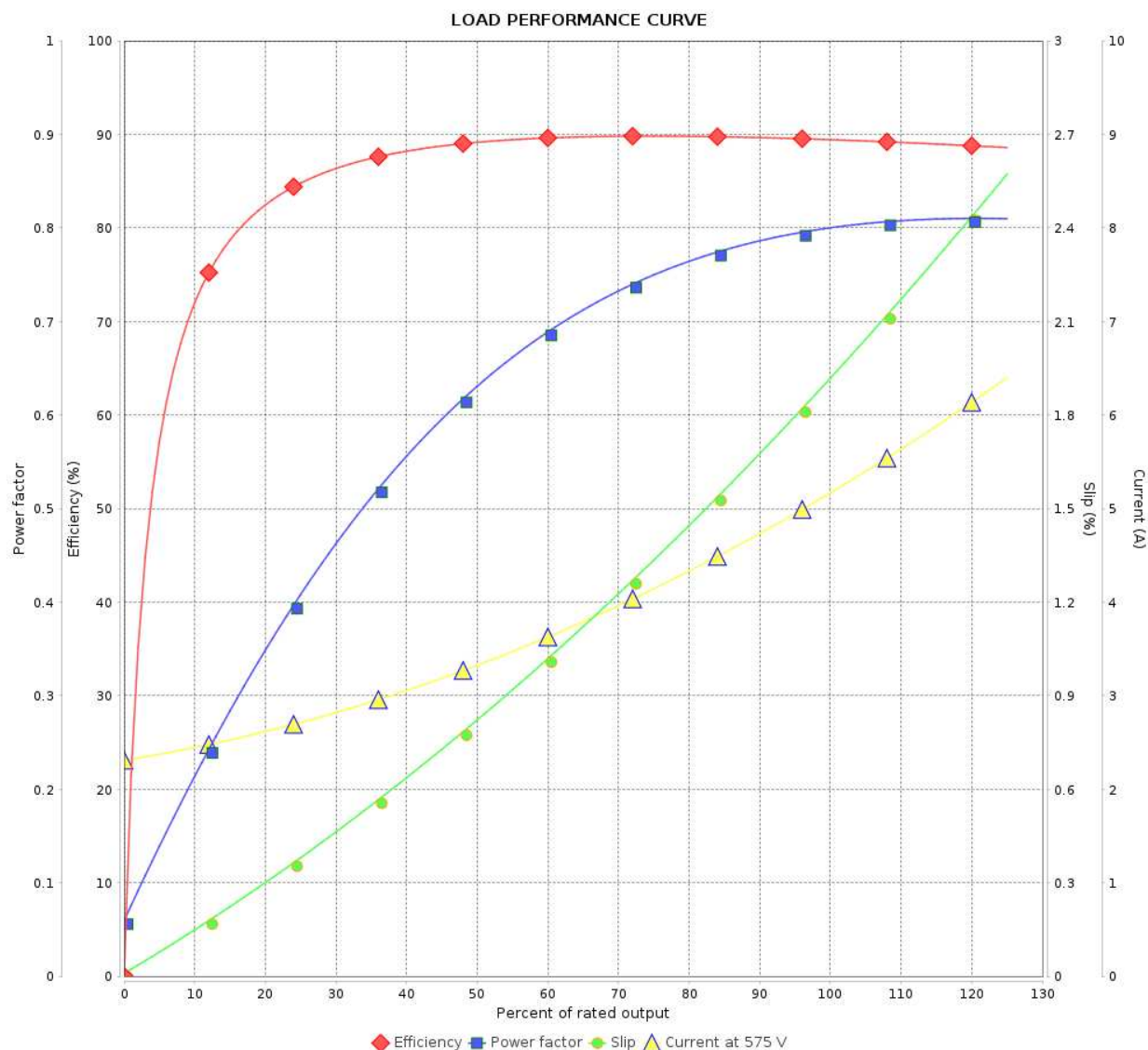
Three Phase Induction Motor - Squirrel Cage



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

Product code : 17114236



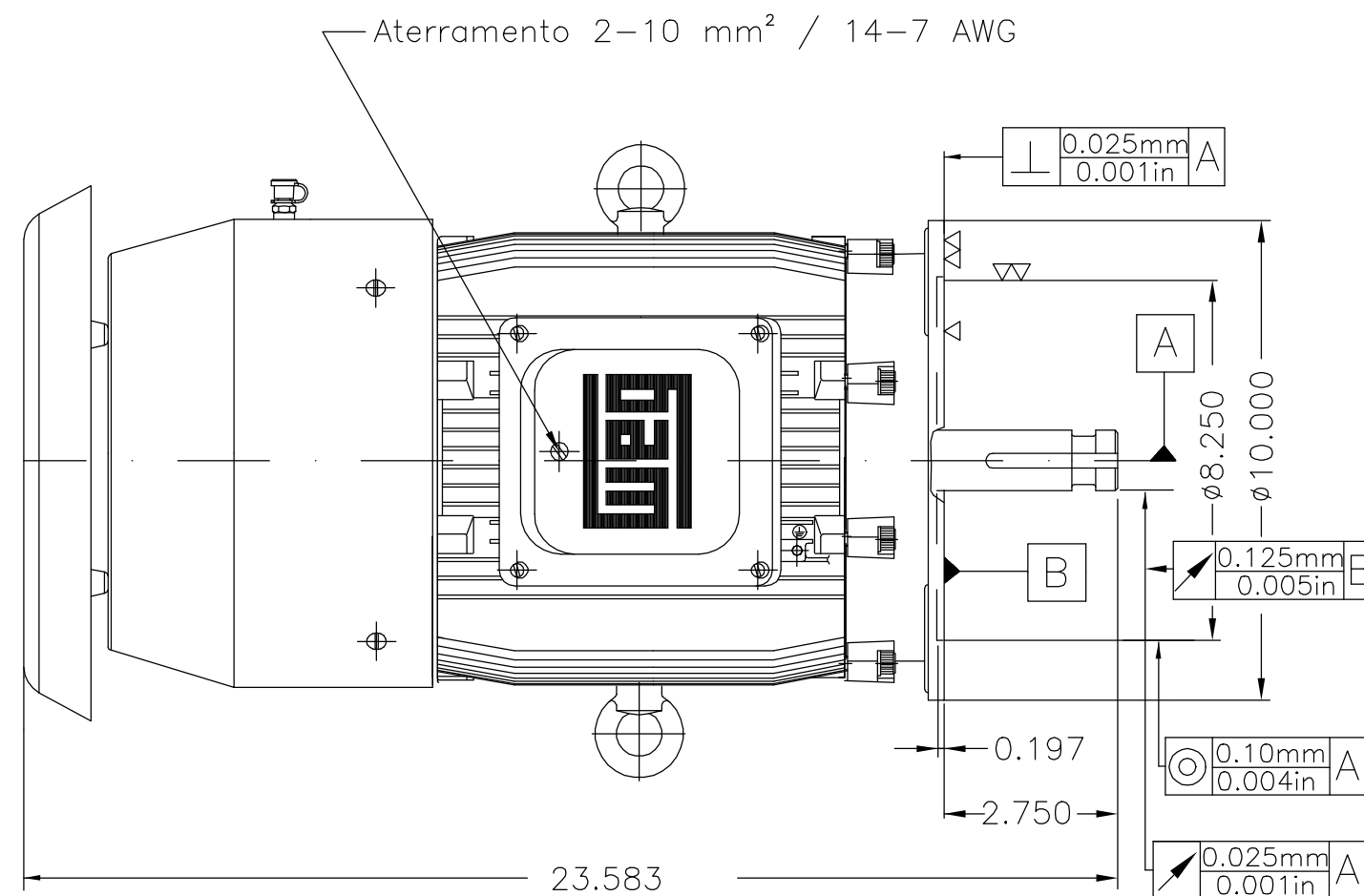
Performance : 575 V 60 Hz 4P

Rated current : 5.19 A
LRC : 6.6
Rated torque : 2.06 kgfm
Locked rotor torque : 210 %
Breakdown torque : 280 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0413 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	20/07/2026				

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



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CÓPIA SEM CONTROLE

Dimensões em polegada

				LIBERADO
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