

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15686551

Frame	: 182LP	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.31-7.51/3.76 A	Protection degree	: IP55
L. R. Amperes	: 69.8-63.1/31.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code K)	Mounting	: W-6
No load current	: 2.70-2.80/1.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight ³	: 65.0 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0059 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	78.5	84.0	86.5	Max. traction
Power Factor	0.00	0.72	0.81	0.85	Max. compression

	Drive end	Non drive end
Bearing type	: 6206	7306BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 13463 h	8437 h
Lubricant amount	: 5 g	7 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				
Checked by				
Date	30/10/2024		Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

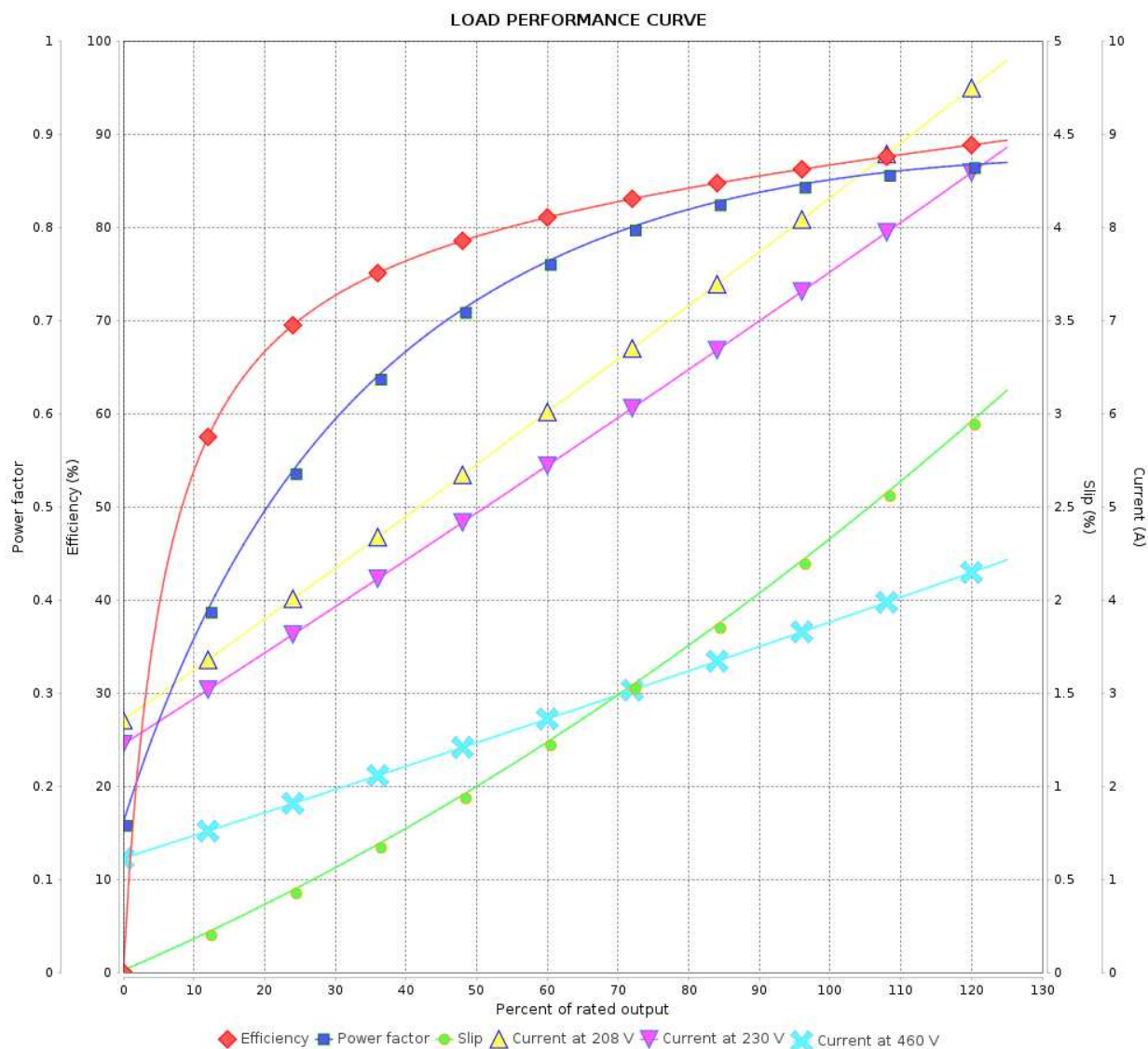
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Premium Efficiency Three-Phase

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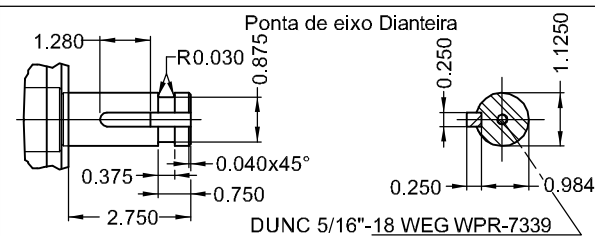
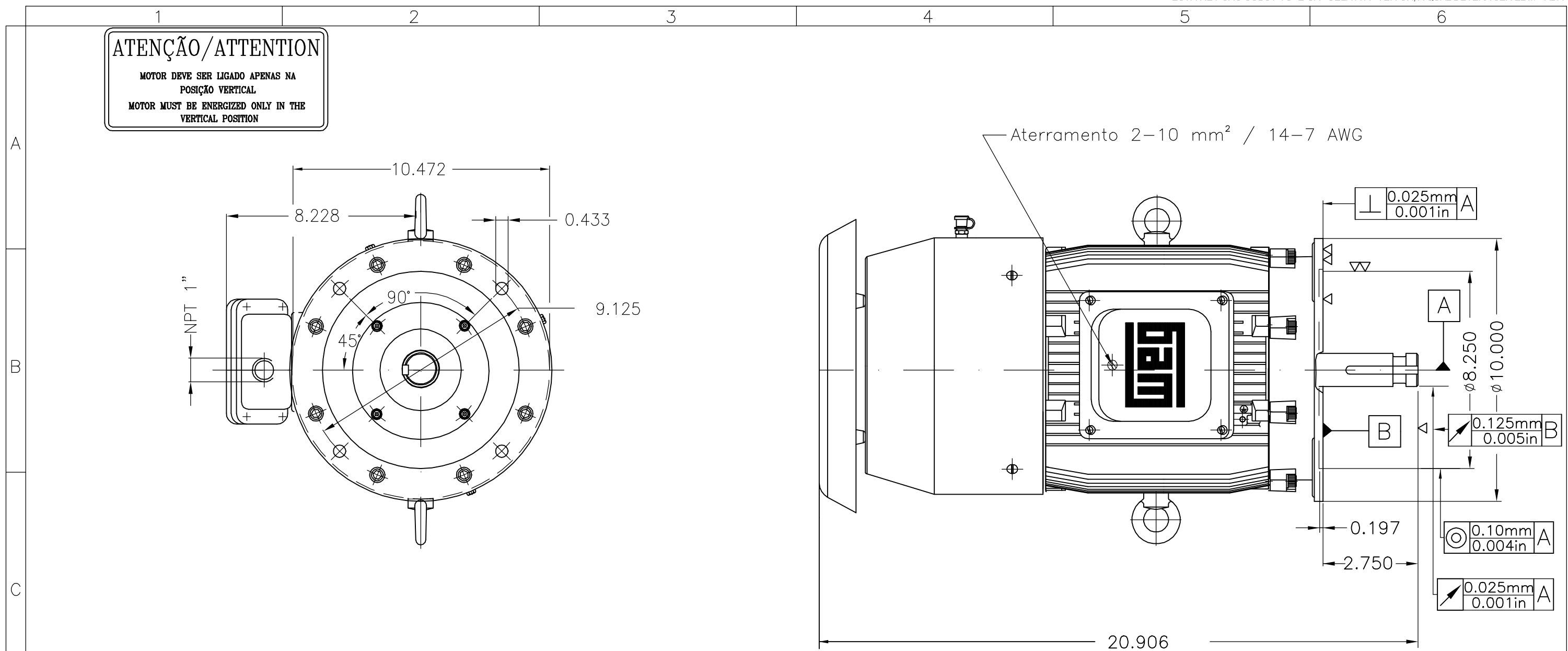


Performance : 208-230/460 V 60 Hz 2P

Rated current : 8.31-7.51/3.76 A
LRC : 8.4
Rated torque : 0.619 kgfm
Locked rotor torque : 260 %
Breakdown torque : 380 %
Rated speed : 3515 rpm

Moment of inertia (J) : 0.0059 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
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Date					



3 HP 02 Polos 60 Hz							A	
V.J. PAMENSKY CANADA INC.								
500002148791		ALT CONFORME 418229042		CLAUDEMIRR	JACKSONDC	JACKSONDC	14.06.2022	01
500001832452		INITIAL ISSUE - 417500668/0-MEC.		NSCHMIDT	NOERNBERG	LUIZS	13.10.2020	00
ECM	LOC	RESUMO MODIFICAÇÃO		EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	NSCHMIDT		MOTOR TRIFÁSICO IN LINE EXTRA THRUST CARCAÇA 182LP IP55 TEFC		10008013438 000 01			
VERIFICADOR	NOERNBERG							
LIBERADOR	LUIZS							
DATA LB.	13.10.2020	WMO	Jaragua do Sul	Engenharia de Produto	FOLHA	1	/	1