

# 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 <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight <sup>3</sup>	: 65.0 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0059 kgm <sup>2</sup>		
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

		<u>Drive end</u>	<u>Non drive end</u>
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		Page 1 / 2 Revision		
Checked by				
Date	30/10/2024			

# LOAD PERFORMANCE CURVE

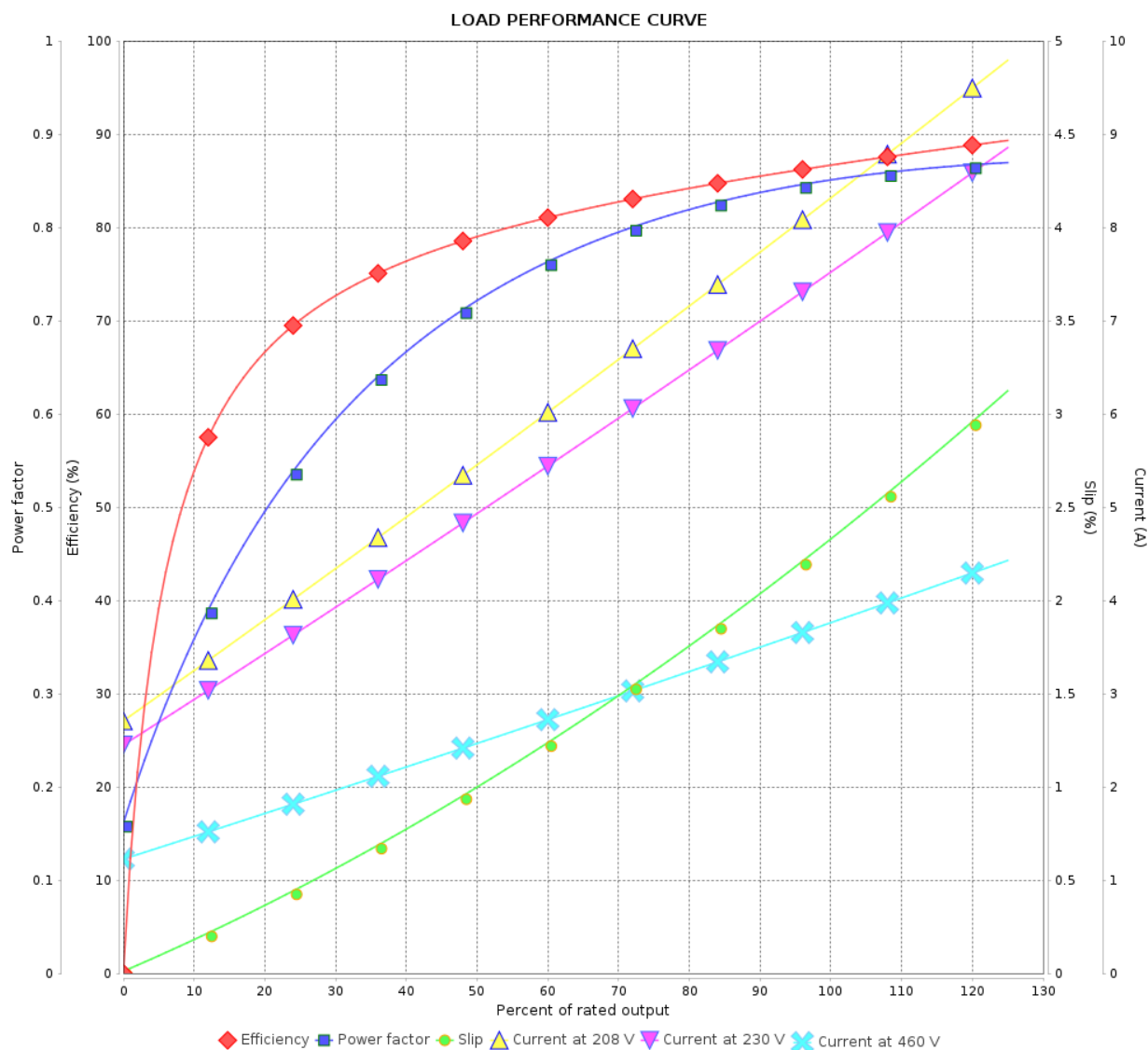
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Premium Efficiency Three-Phase

Product code : 15686551

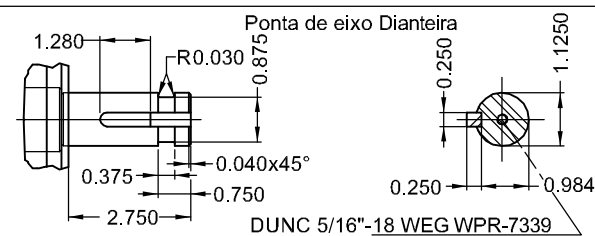
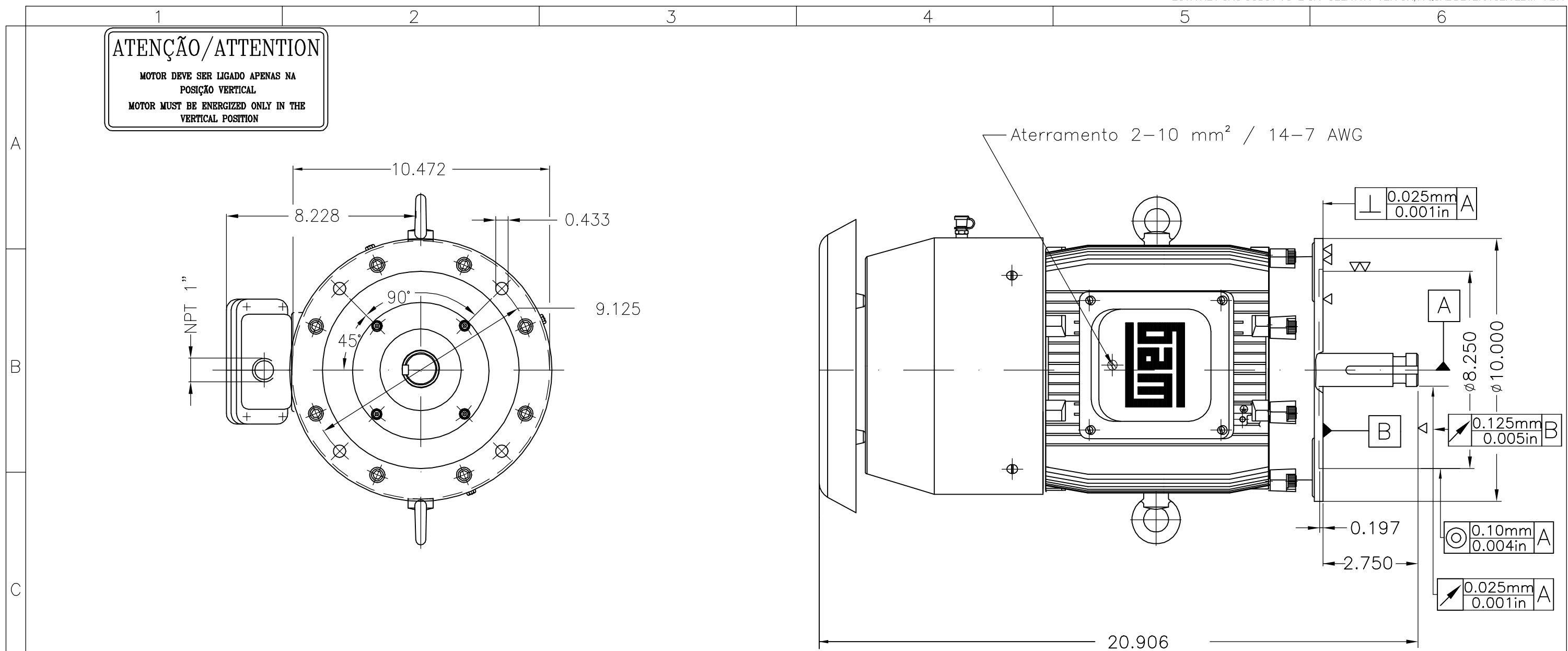




Performance : 208-230/460 V 60 Hz 2P

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 kgm<sup>2</sup>  
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
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Date	30/10/2024				



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		<div>MOTOR TRIFÁSICO IN LINE EXTRA THRUST</div> <div>CARÇAÇA 182LP IP55 TEFC</div>				10008013438			
VERIFICADOR		NOERNBERG	000					01			
LIBERADOR		LUIZS									
DATA LB.		13.10.2020	WMO	Jaragua do Sul		Engenharia de Produto		FOLHA		1 / 1	

CÓPIA SEM CONTROLE

Dimensões em polegada

LIBERADO

ZME A3