

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15845772

Frame	: 184LP	Locked rotor time	: 30s (cold) 17s (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	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 6.57 A	Protection degree	: IP55
L. R. Amperes	: 46.6 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code J)	Mounting	: W-6
No load current	: 3.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 2.07 kgfm	Approx. weight ³	: 71.0 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0156 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	86.5	88.5	89.5	Max. traction
Power Factor	0.00	0.59	0.71	0.79	Max. compression

	Drive end	Non drive end
Bearing type	: 6206 C3	7306BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 19765 h	16157 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

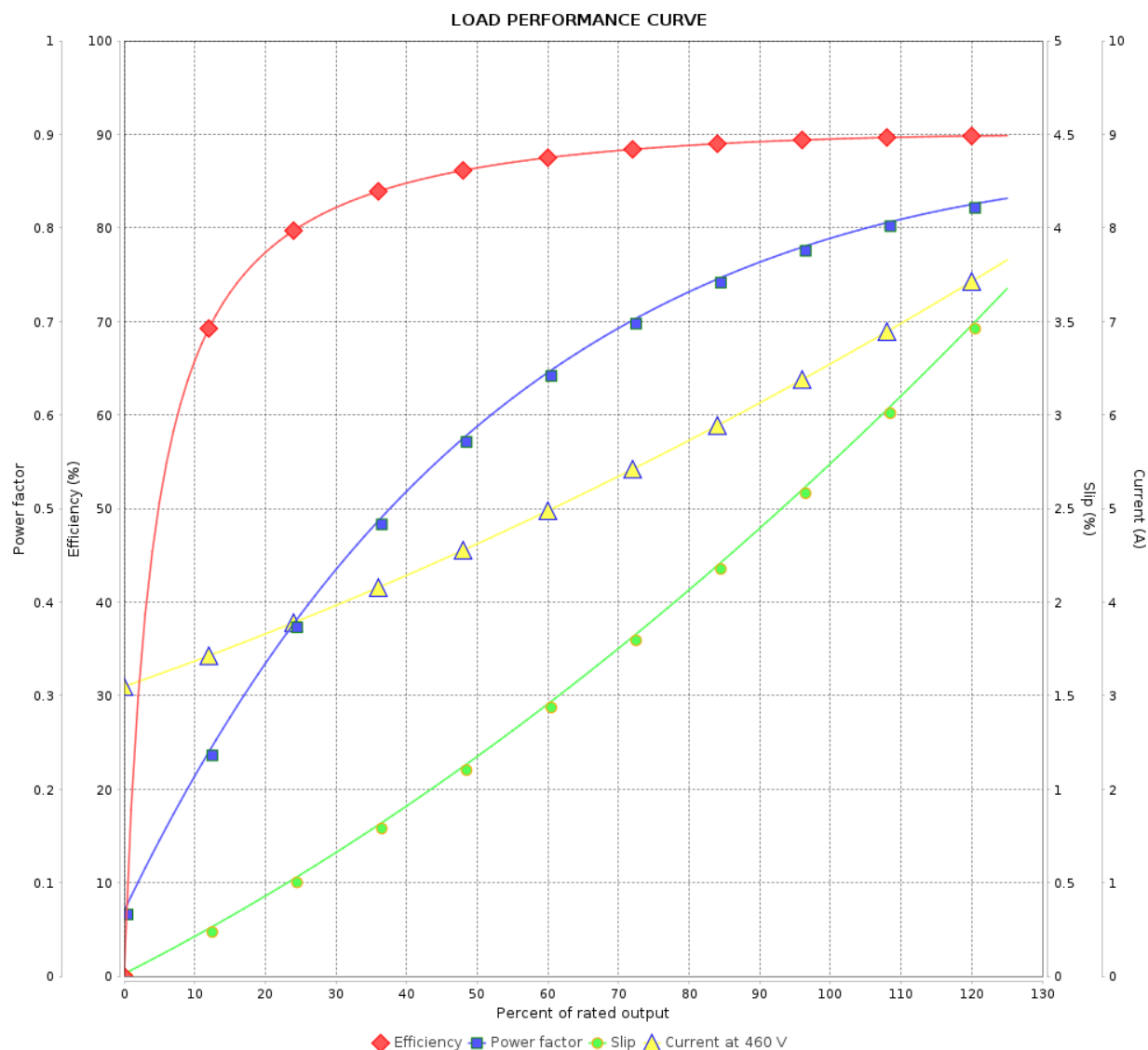
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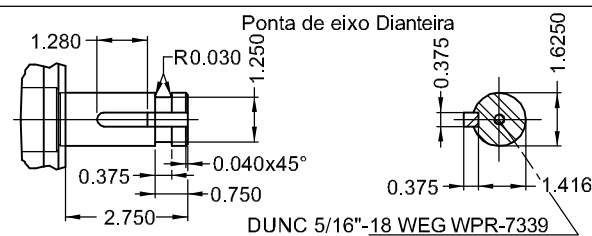
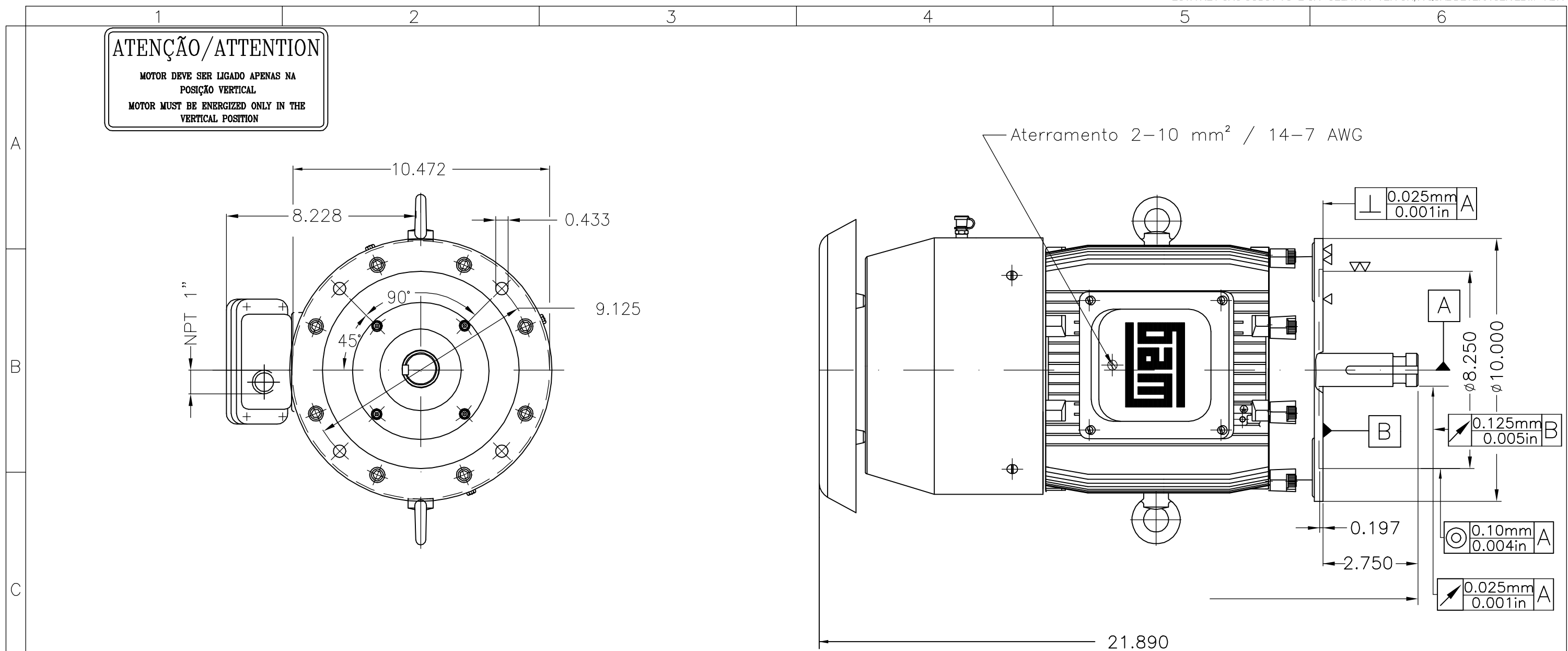


Performance : 460 V 60 Hz 4P

Rated current : 6.57 A
LRC : 7.1
Rated torque : 2.07 kgfm
Locked rotor torque : 250 %
Breakdown torque : 330 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0156 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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



5 HP 04 Polos 60 Hz										A		
V.J. PAMENSKY CANADA INC.												
500002148791			ALT CONFORME 418229042				CLAUDEMIRR	JACKSONDC	JACKSONDC	14.06.2022	01	
500001885176			INITIAL ISSUE 417654340/0-ELET				DVEGINI	CLEITONGS	AMANDAL	04.02.2021	00	
ECM		LOC	RESUMO MODIFICAÇÃO				EXECUTADO	VERIFICADO	LIBERADO	DATA	VER	
EXECUTOR		DVEGINI		MOTOR TRIFÁSICO IN LINE EXTRA THRUST CARÇAÇA 184LP IP55 TEFC				10008297958				
VERIFICADOR		CLEITONGS						000				01
LIBERADOR		AMANDAL										
DATA LB.		04.02.2021	W/MO	Jaragua do Sul		Engenharia de Produto		FOLHA		1 / 1		

CÓPIA SEM CONTROLE

Dimensões em polegada

LIBERADO

ZME	A3
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