

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15733440

Frame	: 256LP	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 18.6 A	Protection degree	: IP55
L. R. Amperes	: 115 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 5.52 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 4.11 kgfm	Approx. weight ³	: 170 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0611 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	90.2	91.0	91.0	Max. traction
Power Factor	0.00	0.79	0.86	0.89	Max. compression

	Drive end	Non drive end
Bearing type	: 6309	7309BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 7898 h	4933 h
Lubricant amount	: 13 g	13 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

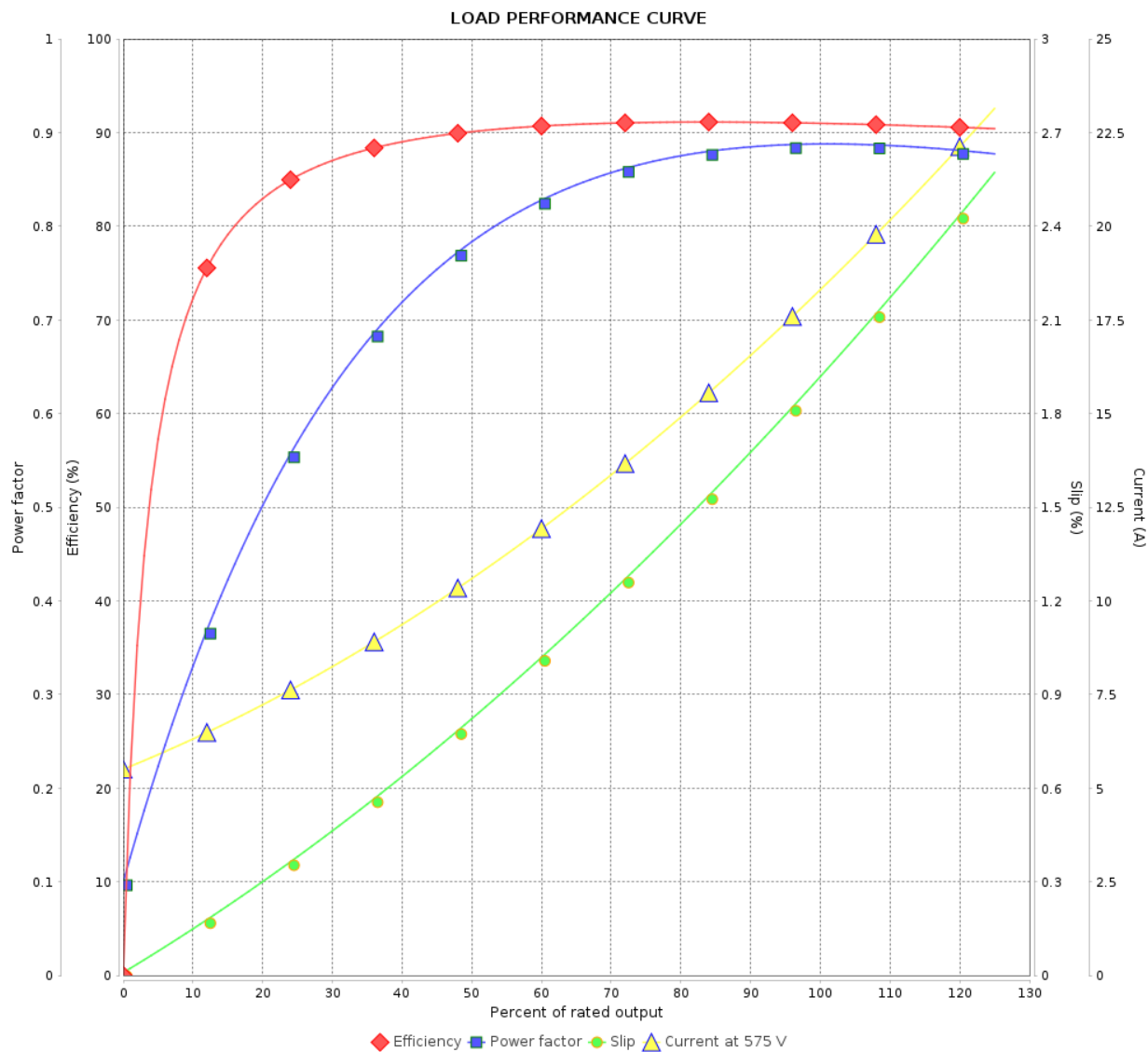
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 15733440

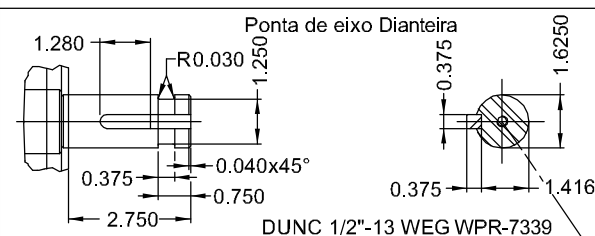
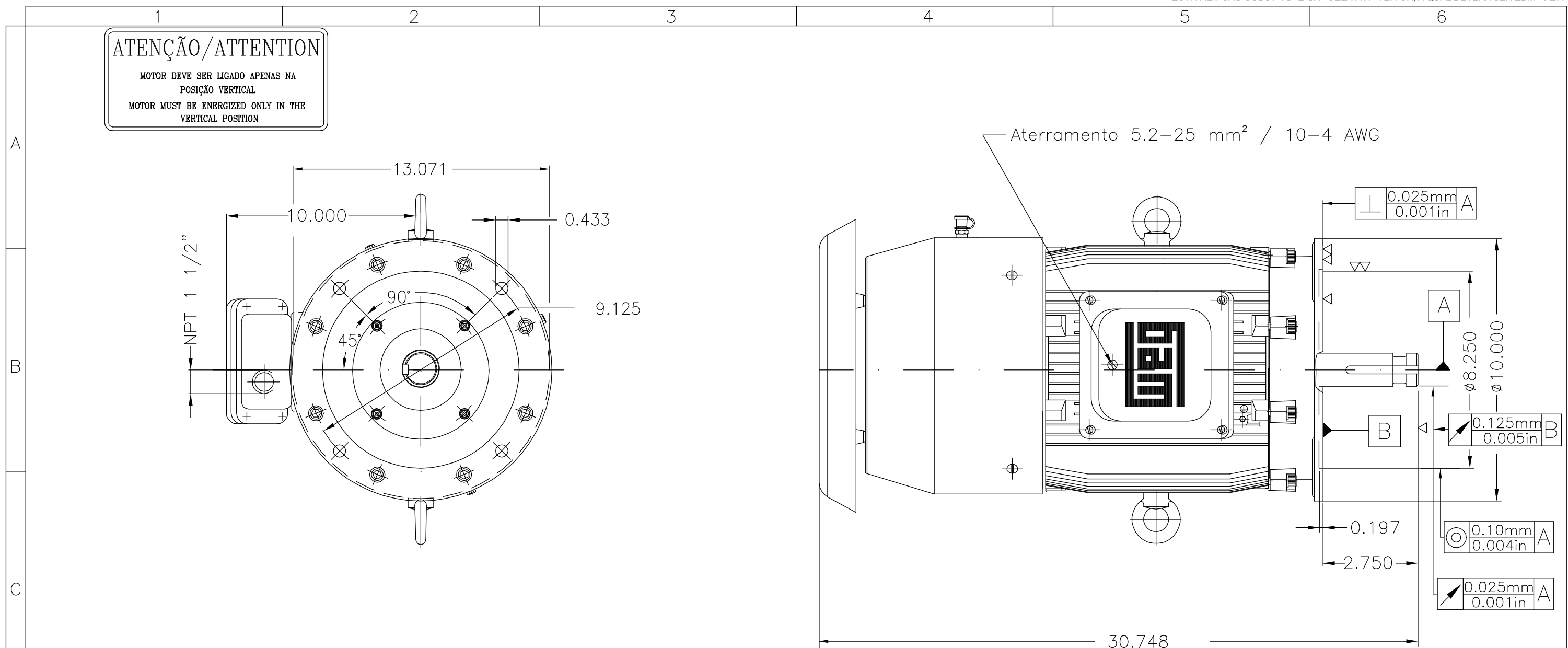


Performance : 575 V 60 Hz 2P

Rated current : 18.6 A
LRC : 6.2
Rated torque : 4.11 kgfm
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0611 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					



20 HP 02 Polos 60 Hz										A	
V.J. PAMENSKY CANADA INC.											
500002148791			ALT CONFORME 418229042				CLAUDEMIRR	JACKSONDC	JACKSONDC	14.06.2022	01
500001845793			INITIAL ISSUE 417536426/0				DVEGINI	SCARMAGNAN	LUIZS	09.11.2020	00
ECM		LOC	RESUMO MODIFICAÇÃO				EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	DVEGINI			MOTOR TRIFÁSICO IN LINE EXTRA THRUST CARÇAÇA 256LP IP55 TEFC				10008087208 000 01			
VERIFICADOR	SCARMAGNANI										
LIBERADOR	LUIZS										
DATA LB.	09.11.2020	W/MO	Jaragua do Sul	Engenharia de Produto			FOLHA	1 / 1			

CÓPIA SEM CONTROLE

Dimensões em polegada

LIBERADO

ZME A3