

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15037011

Frame	: 364/5LP	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 75 HP (55 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	: 66.5 A	Protection degree	: IP55
L. R. Amperes	: 466 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code G)	Mounting	: W-6
No load current	: 22.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 30.6 kgfm	Approx. weight ³	: 496 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.9798 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	94.5	95.0	95.4	Max. traction
Power Factor	0.00	0.74	0.83	0.87	Max. compression

	Drive end	Non drive end
Bearing type	: 6314	7311BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 4895 h	4784 h
Lubricant amount	: 27 g	18 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 Revision 1 / 2		
Checked by				
Date	29/10/2024			

LOAD PERFORMANCE CURVE

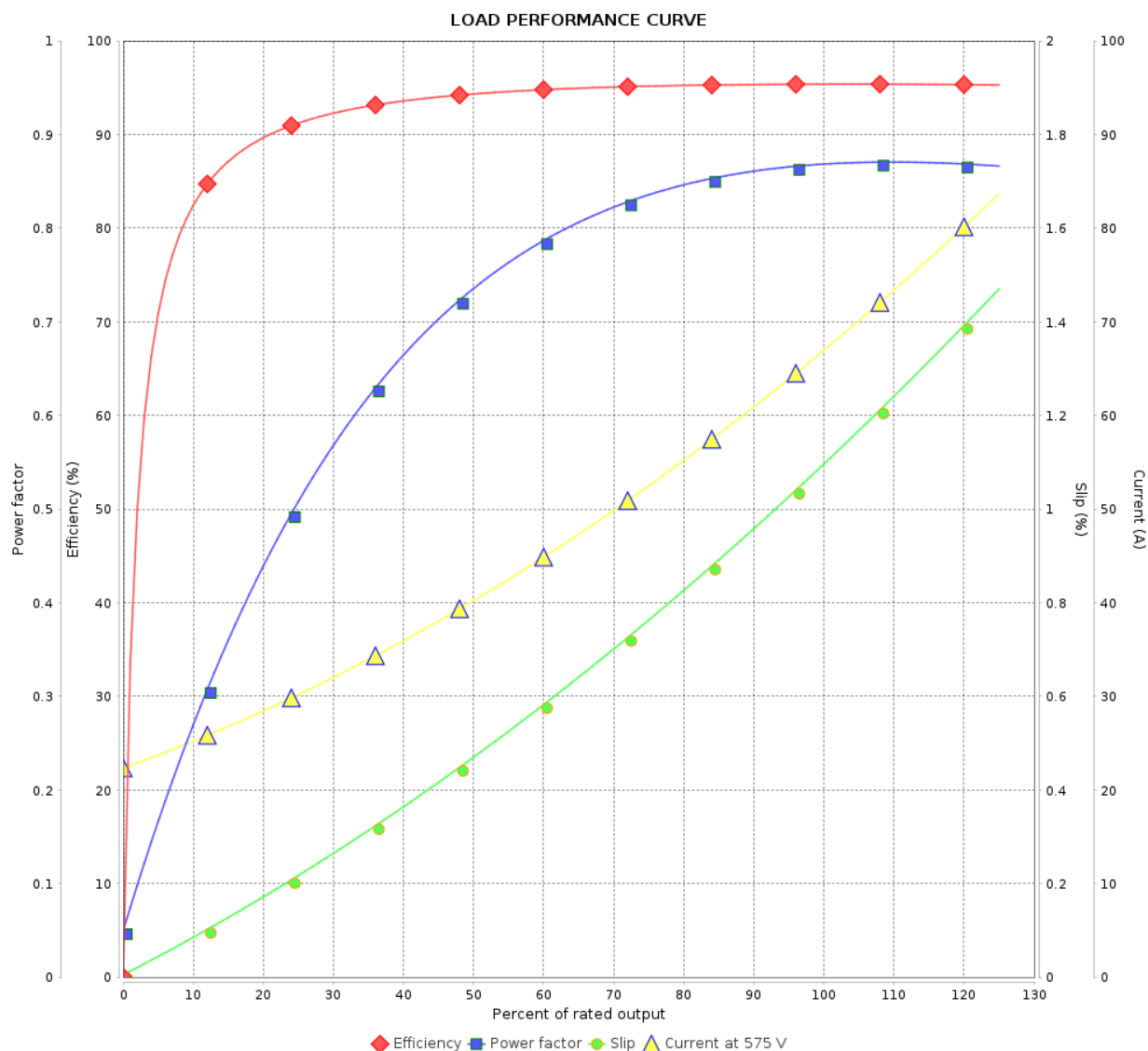
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 15037011

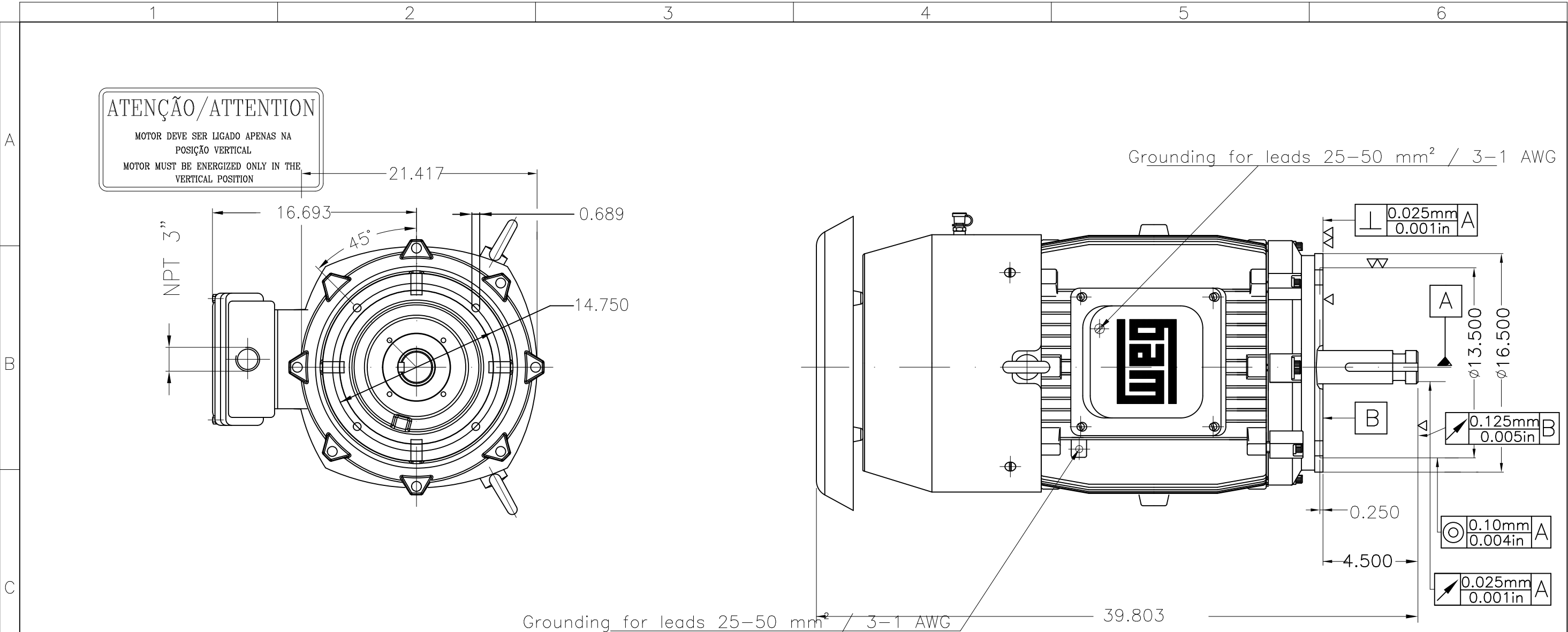


Performance : 575 V 60 Hz 4P

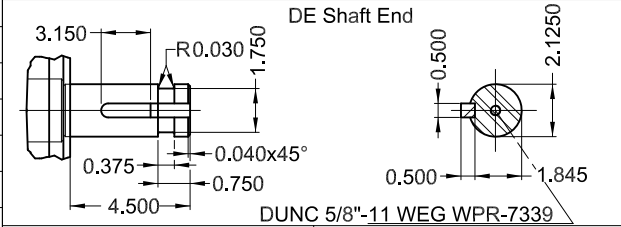
Rated current : 66.5 A
LRC : 7.0
Rated torque : 30.6 kgfm
Locked rotor torque : 240 %
Breakdown torque : 290 %
Rated speed : 1780 rpm

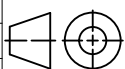
Moment of inertia (J) : 0.9798 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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



Fan cover - steel plate
Sealing - oil seal ring
Rubber drain plug
Without switch off thermal protection
B key
Grease - Mobil Polyrex EM
Plastic flat plug
Class F insulation - 80K temperature rise
Without Space Heaters
Shaft material - SAE/ABNT 1040/45
Without terminal block
NDE sealing - lip seal
Aluminum fan
Bearing cap
Reduced balancing with half key
Without epoxi in the cables outlet
Certification CSA/UL
Packing - crate
Without thermal protection on bearings
With grease fitting
Color RAL 5009
Painting plan 203A
Service factor 1.25
Mounting NEMA W-6
Mounting V1



75 HP 04 Poles 60 Hz										A
					HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER		THREE PH. MOTOR IN LINE EXTRA THRUST NEMA PREM. EFF.			PREVIEW WDD 00				
CHECKED			FRAME 364/5LP IP55 TEFC							
RELEASED										
REL. DATE		WMO	Jaragua do Sul		Product Engineering	SHEET		1 / 1		