

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 16240921

Frame	: 324LP	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 40 HP (30 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	: 102-92.5/46.2 A	Protection degree	: IP55
L. R. Amperes	: 673-611/305 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: W-6
No load current	: 22.4-26.0/13.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3560 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 1.11 %	Starting method	: VFD
Rated torque	: 8.15 kgfm	Approx. weight ³	: 291 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2063 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.4	93.6	93.6	Max. traction	: 0 kgf
Power Factor	0.00	0.79	0.85	0.87	Max. compression	: 0 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6212 C3	7310BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	6072 h	4017 h
Lubricant amount	:	13 g	15 g
Lubricant type	:	Mobil Polyrex EM	

Notes
In Line Extra Thrust
NEMA Premium Efficiency

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	20/07/2026			

LOAD PERFORMANCE CURVE

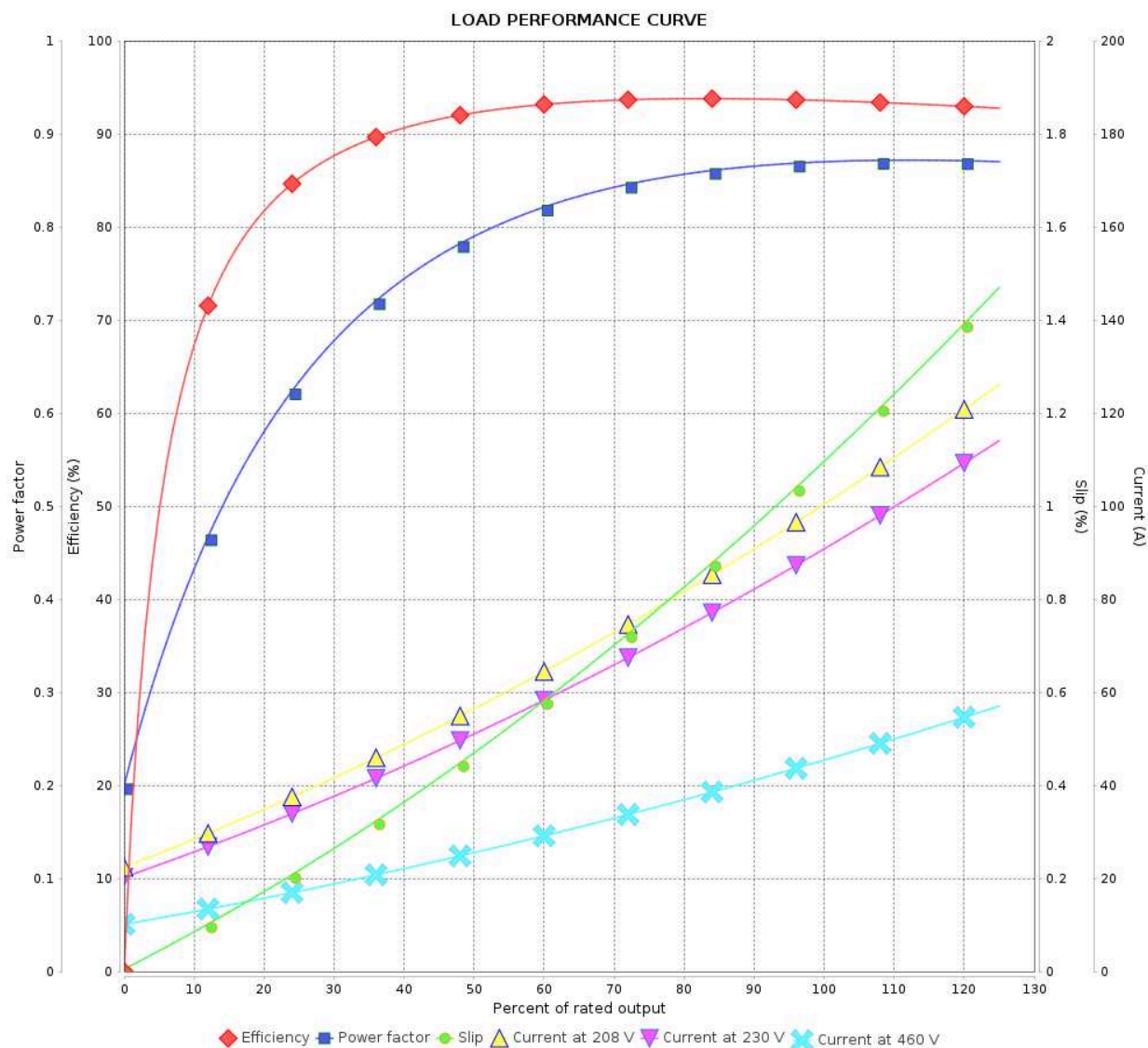
Three Phase Induction Motor - Squirrel Cage



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

Product code : 16240921



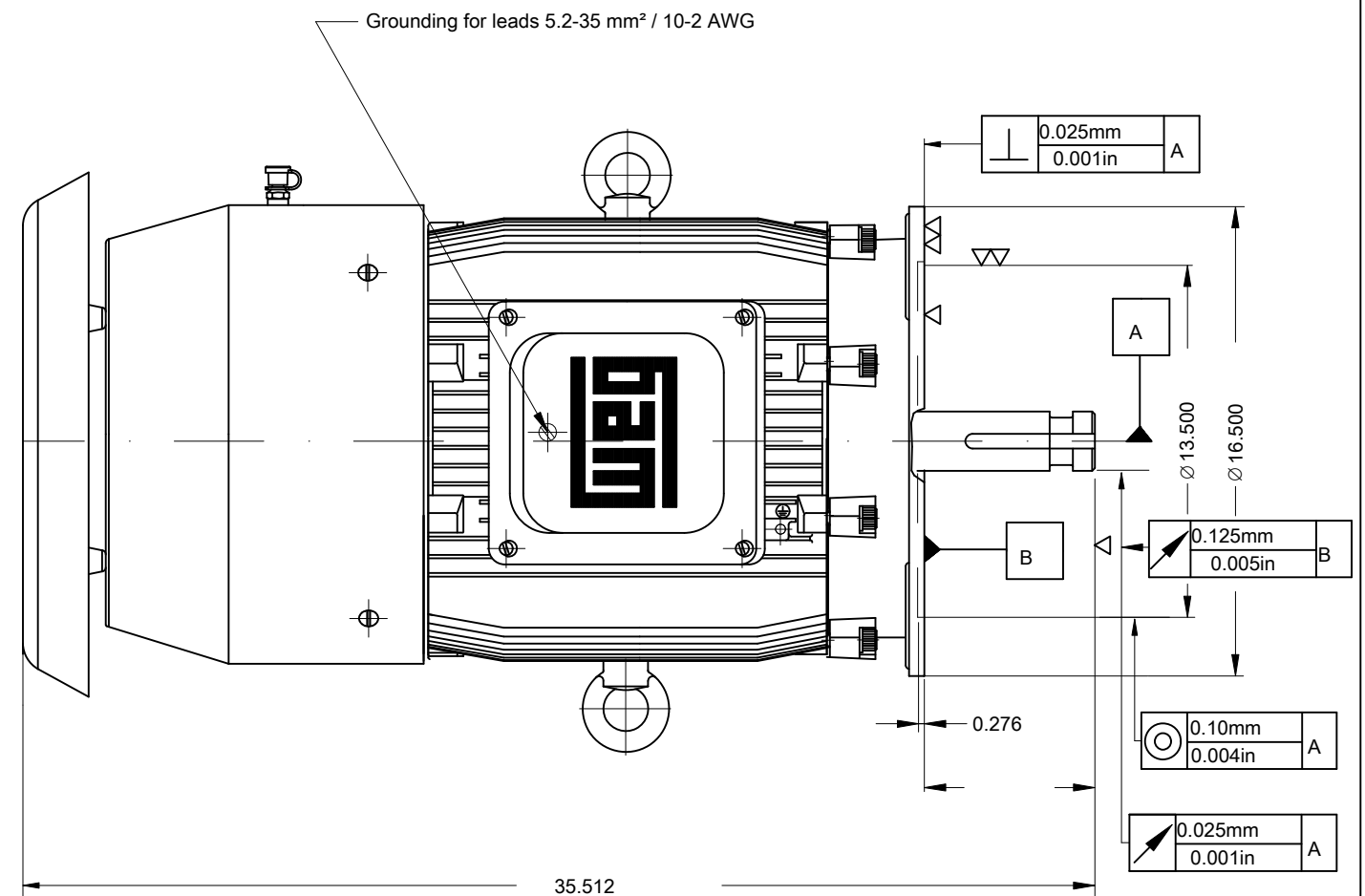
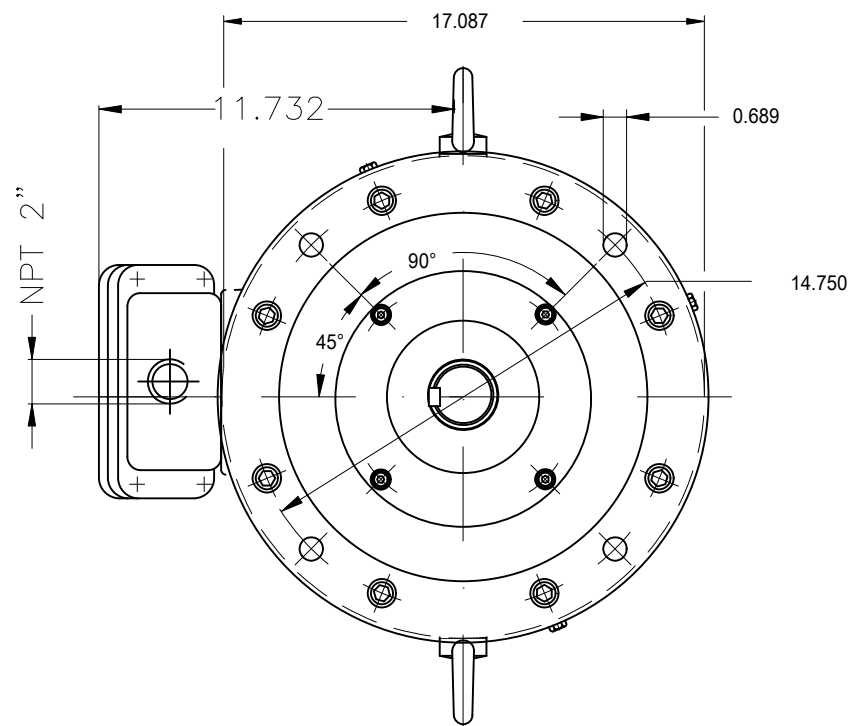
Performance : 208-230/460 V 60 Hz 2P

Rated current : 102-92.5/46.2 A
LRC : 6.6
Rated torque : 8.15 kgfm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 3560 rpm

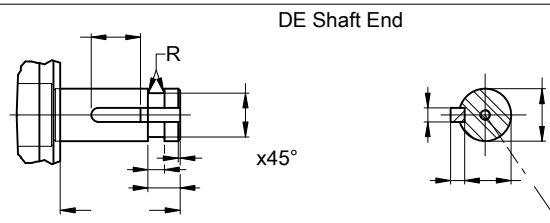
Moment of inertia (J) : 0.2063 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
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Date	20/07/2026				

ATENÇÃO/ATTENTION
 MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
 MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION



Packing - crate
Plastic flat plug
Shaft material - SAE/ABNT 1040/45
B key
With drip cover
Fan cover - steel plate
NDE sealing - lip seal
Sealing - oil seal ring
Without epoxi in the cables outlet
Grease - Mobil Polyrex EM
Bearing cap
C3 DE bearing
Without terminal block
Without overload protector at bearing
Without Space Heaters
Without thermal protection on bearings
Without alarm thermal protection
Without switch off thermal protection
Rubber drain plug
With grease fitting
Aluminum fan
Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V1



40 HP 02 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. FRAME 324LP IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul			Product Engineering	SHEET	1	/	1