

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase		Product code : 15046201		
Frame	: 286LP		Locked rotor time	: 30s (cold) 17s (hot)		
Output	: 30 HP (22 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	: 28.8 A		Protection degree	: IP55		
L. R. Amperes	: 228 A		Cooling method	: IC411 - TEFC		
LRC	: 7.9x(Code J)		Mounting	: W-6		
No load current	: 11.6 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1775 rpm		Noise level ²	: 68.0 dB(A)		
Slip	: 1.39 %		Starting method	: Direct On Line		
Rated torque	: 12.3 kgfm		Approx. weight ³	: 232 kg		
Locked rotor torque	: 290 %					
Breakdown torque	: 320 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.2175 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.0	93.6	93.6	Max. traction	
Power Factor	0.00	0.66	0.77	0.82	Max. compression	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6212			7310BECB	
Sealing	:	Oil Seal			Lip Seal	
Lubrication interval	:	12541 h			10618 h	
Lubricant amount	:	13 g			15 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						
Checked by					Page	Revision
Date	29/10/2024				1 / 2	

LOAD PERFORMANCE CURVE

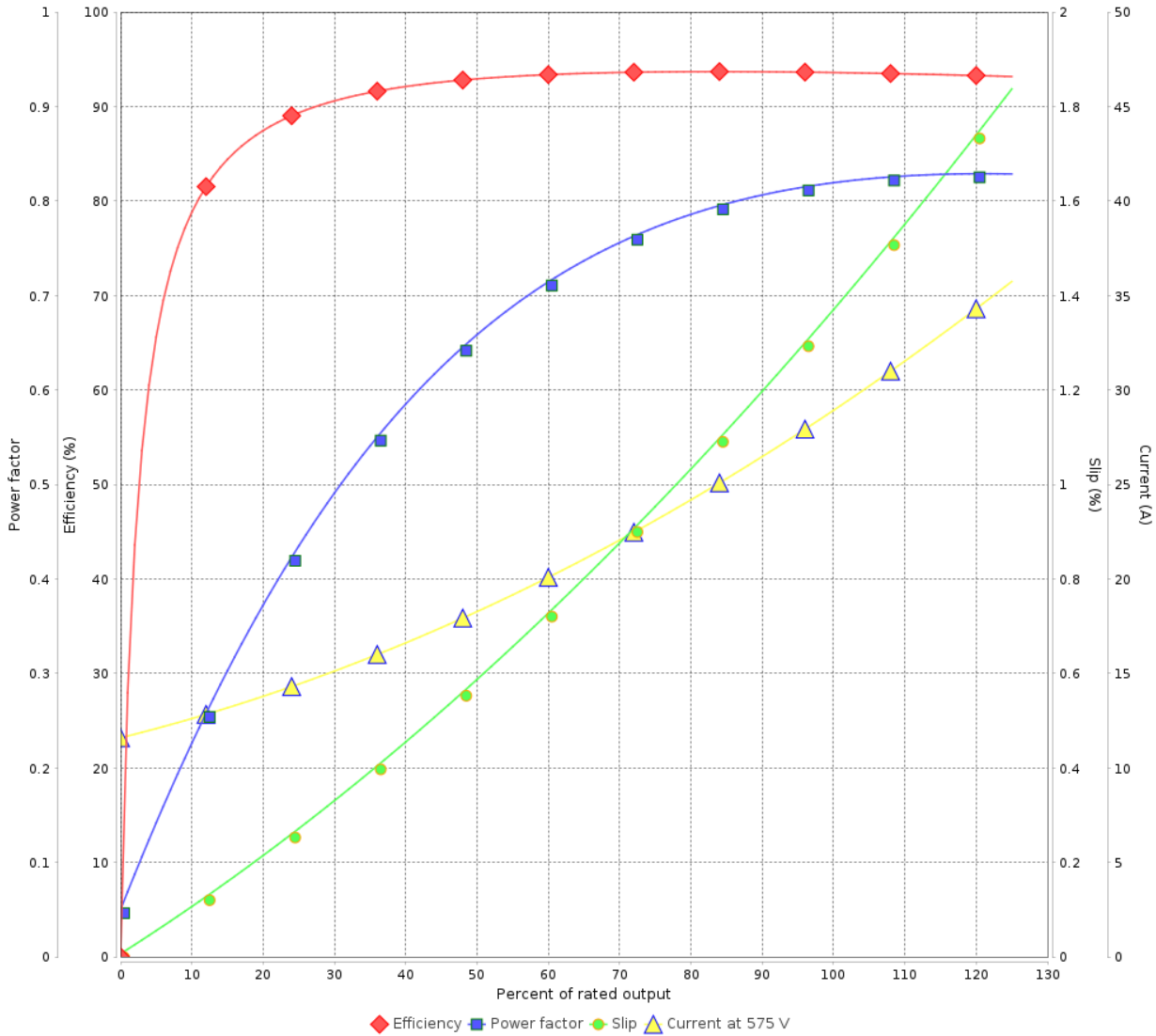
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Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15046201

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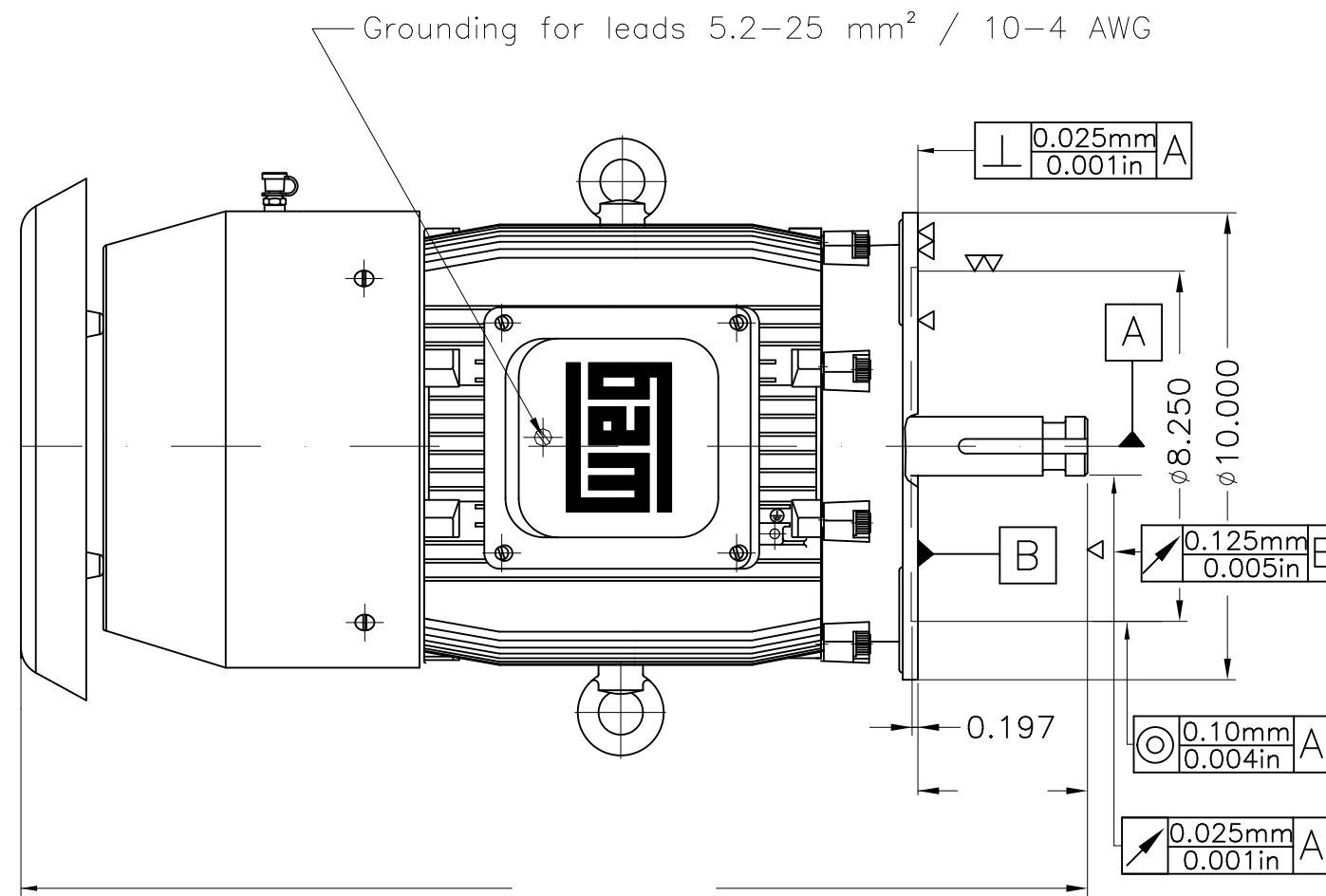
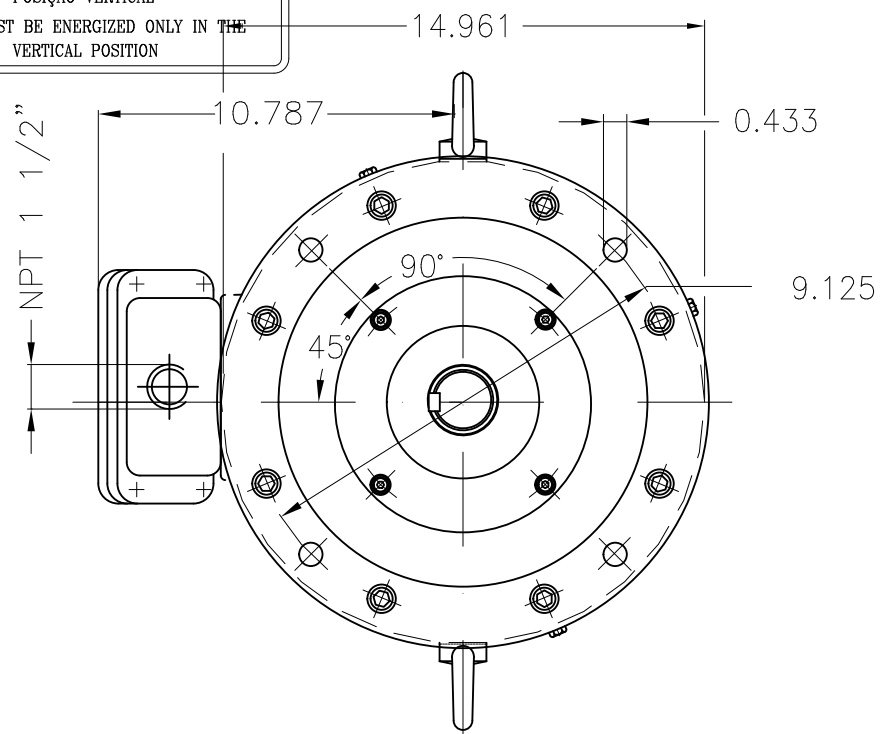
Performance : 575 V 60 Hz 4P

Rated current	: 28.8 A	Moment of inertia (J)	: 0.2175 kgm ²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

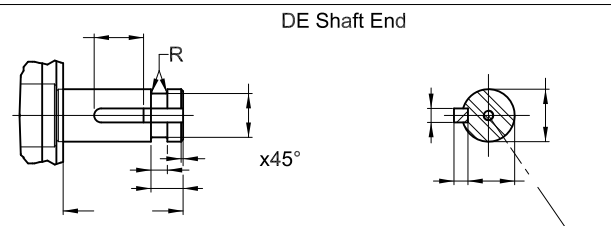
Rev.	Changes Summary	Performed	Checked	Date
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ATENÇÃO/ATTENTION

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



- 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
- Dipping impregnation - polyester
- Without terminal block
- NDE sealing - lip seal
- Aluminum fan
- Bearing cap
- Reduced balancing with half key
- Without epoxy 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



30 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. FRAME 286LP IP55 TEFC				PREVIEW WDD 00							
CHECKED										SHEET		1 / 1	
RELEASED													
REL. DATE		WMO	Jaragua do Sul	Product Engineering									