

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Single-Phase Product code : 10713866

Frame	: D56CEX	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 11.4/6.00-5.70 A	Protection degree	: IP44
L. R. Amperes	: 61.6/32.4-30.8 A	Cooling method	: IC411 - TEFC
LRC	: 5.4x(Code H)	Mounting	: F-1
No load current	: 6.50/2.80-3.25 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.417 kgfm	Approx. weight ³	: 21.0 kg
Locked rotor torque	: 190 %		
Breakdown torque	: 210 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0060 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	72.1	74.7	74.9	Max. traction	: 17 kgf
Power Factor	0.56	0.68	0.75	Max. compression	: 38 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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	26/10/2024			

LOAD PERFORMANCE CURVE

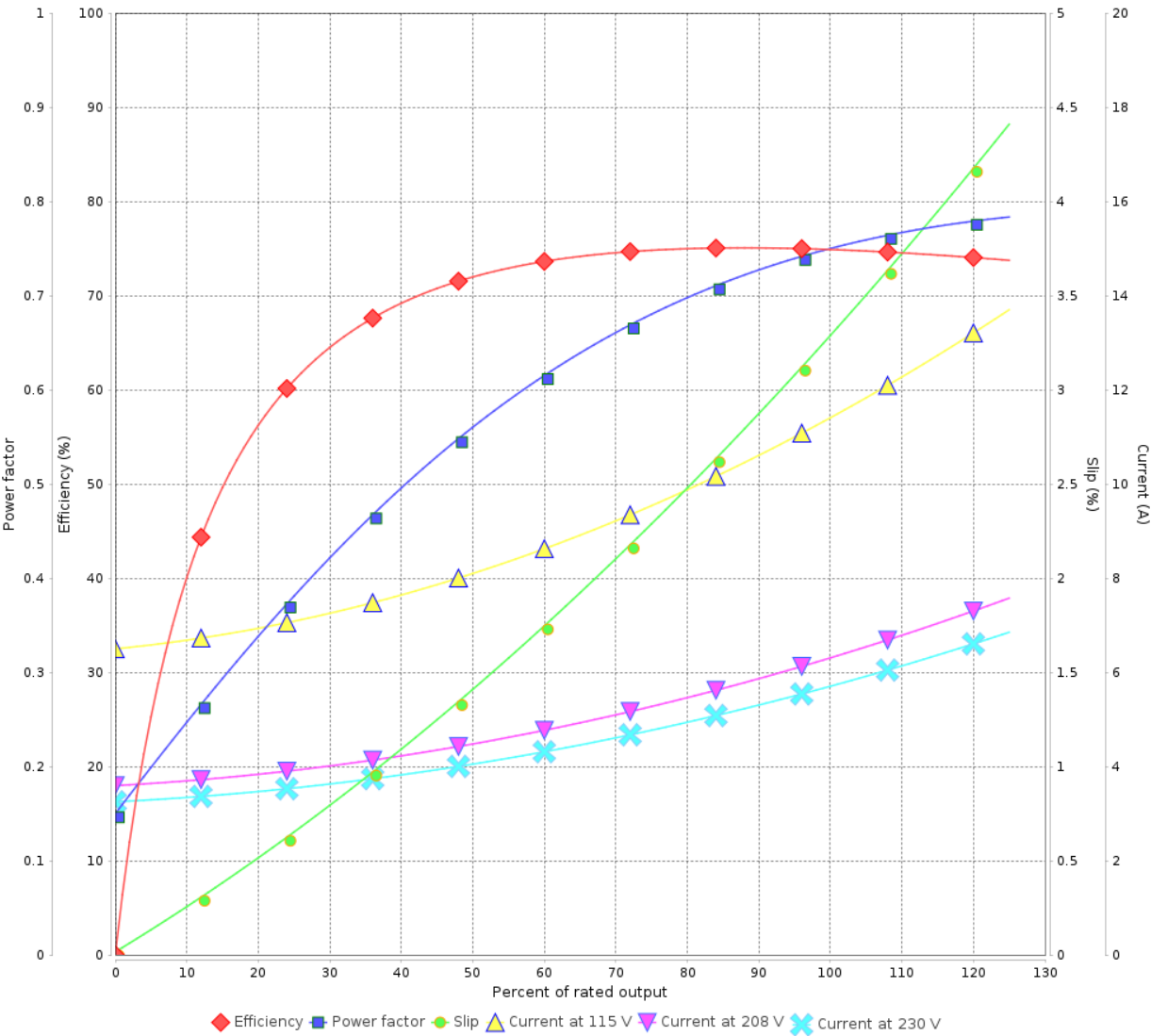
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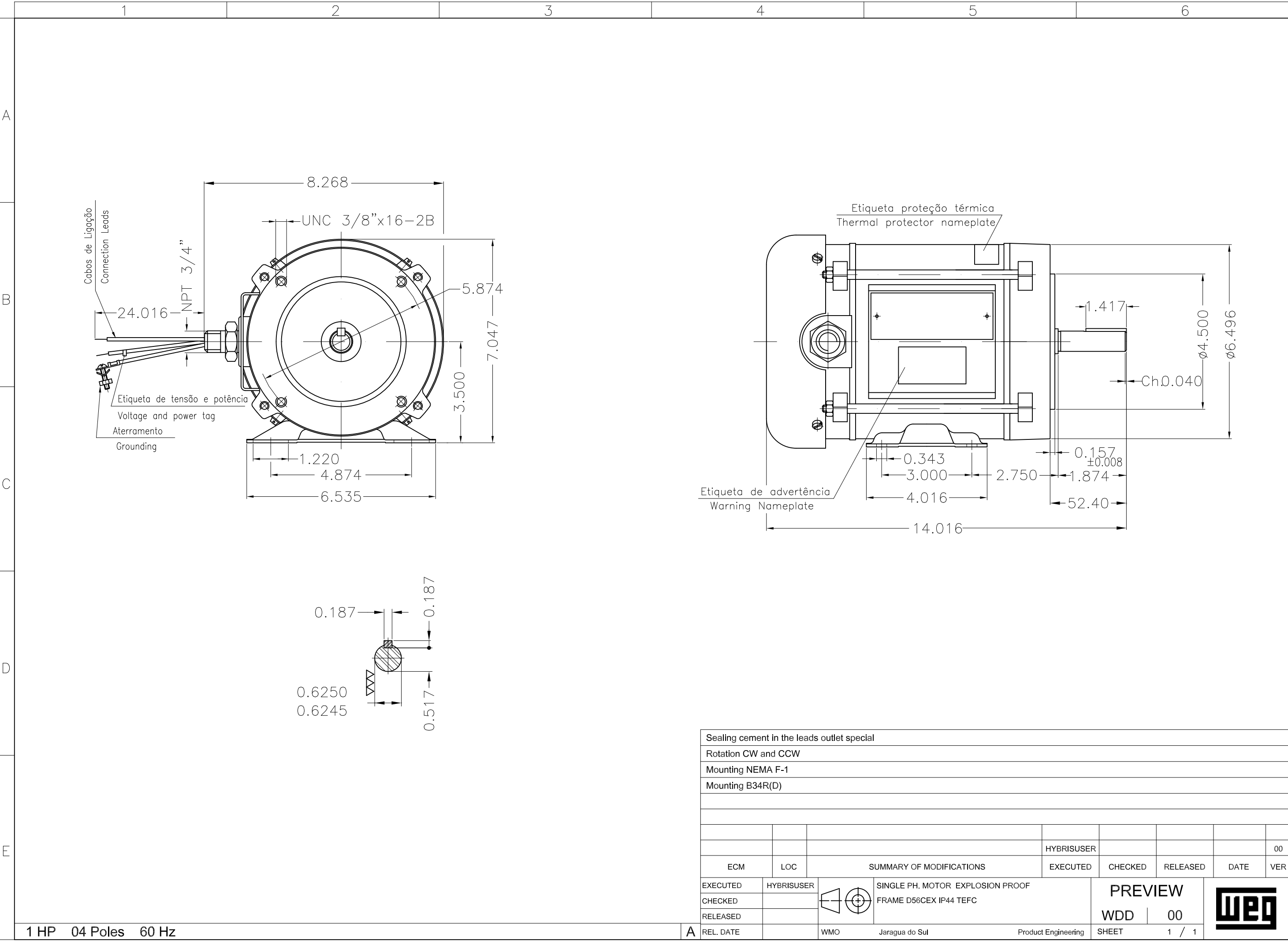
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LOAD PERFORMANCE CURVE



Performance : 115/208-230 V 60 Hz 4P			
Rated current	: 11.4/6.00-5.70 A	Moment of inertia (J)	: 0.0060 kgm ²
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.417 kgfm	Insulation class	: B
Locked rotor torque	: 190 %	Service factor	:
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm		

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Sealing cement in the leads outlet special									
Rotation CW and CCW									
Mounting NEMA F-1									
Mounting B34R(D)									