

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Explosion Proof Single-Phase Product code : 15861200

Frame	: B56EX	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.5 HP (0.37 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	: 7.40/3.60-3.70 A	Protection degree	: IP44
L. R. Amperes	: 44.4/21.6-22.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code M)	Mounting	: F-1
No load current	: 6.00/2.59-3.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Starting method	: Direct On Line
Slip	: 2.78 %	Approx. weight ³	: 16.6 kg
Rated torque	: 0.207 kgfm		
Locked rotor torque	: 280 %		
Breakdown torque	: 220 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0041 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	57.0	64.0	68.6	Max. traction	: 6 kgf
Power Factor	0.44	0.55	0.63	Max. compression	: 23 kgf

	Drive end	Non drive end
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
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Date	26/10/2024		1 / 2	

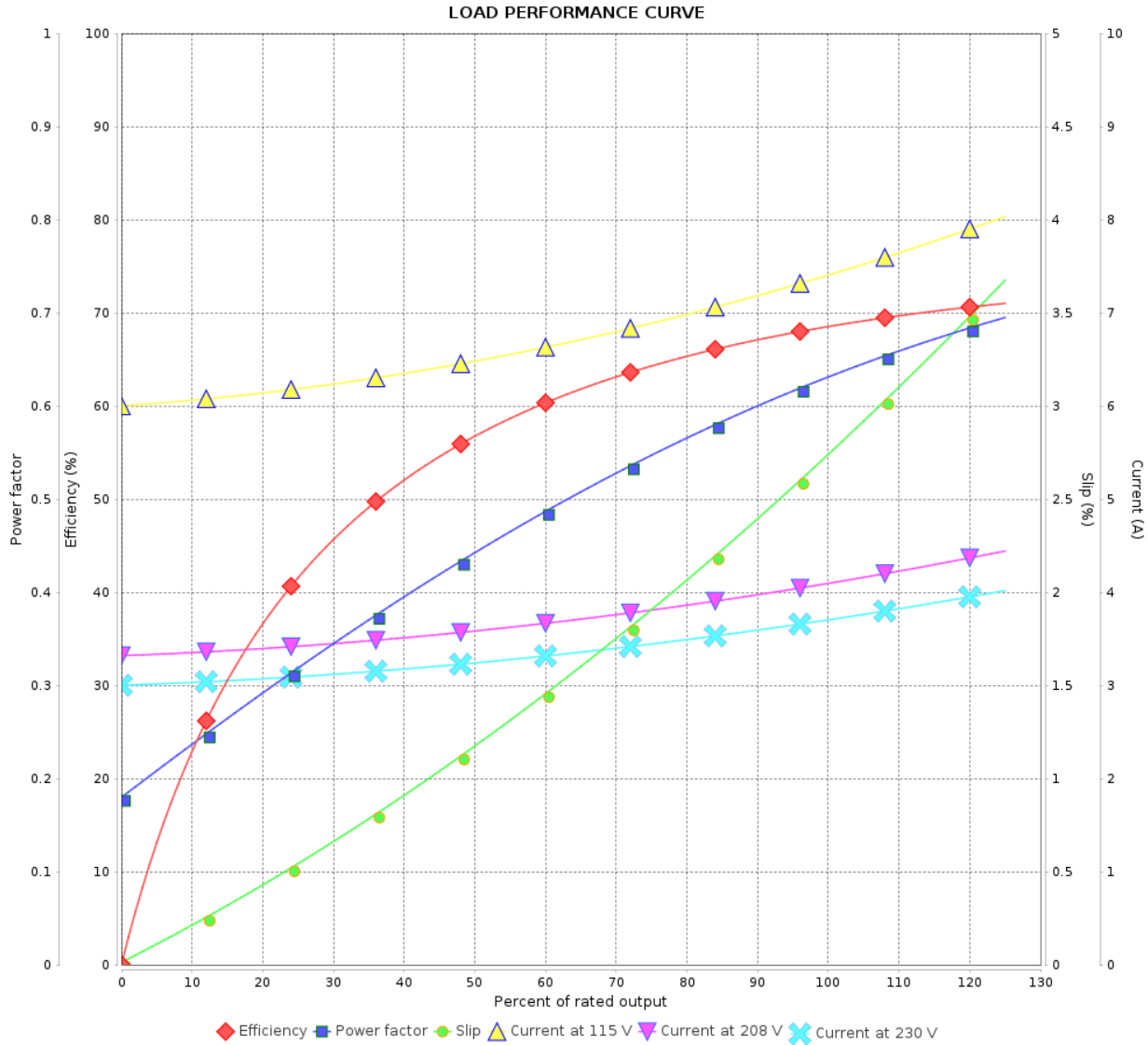
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Single-Phase Product code : 15861200



Performance : 115/208-230 V 60 Hz 4P

Rated current	: 7.40/3.60-3.70 A	Moment of inertia (J)	: 0.0041 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.207 kgfm	Insulation class	: B
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm		

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Date	26/10/2024			

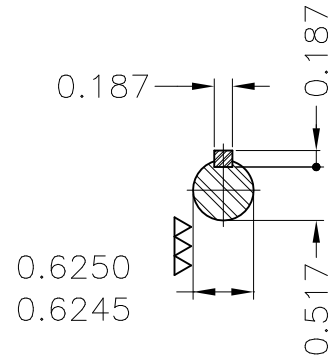
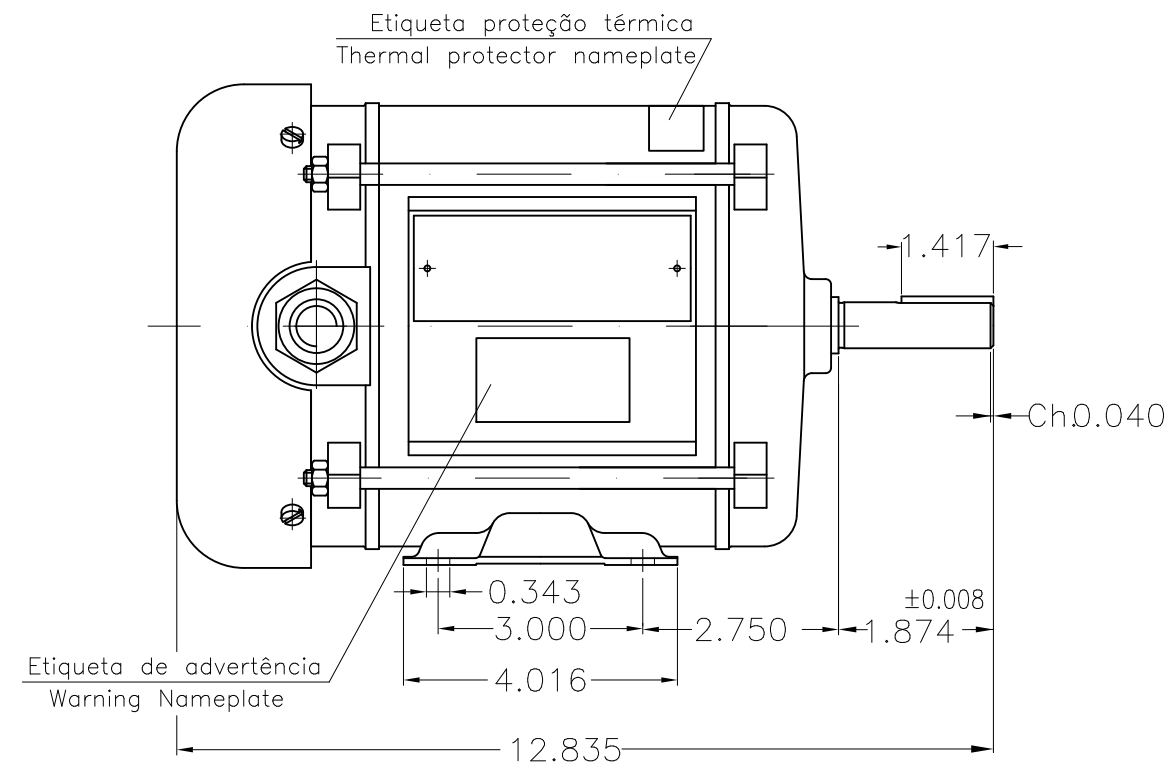
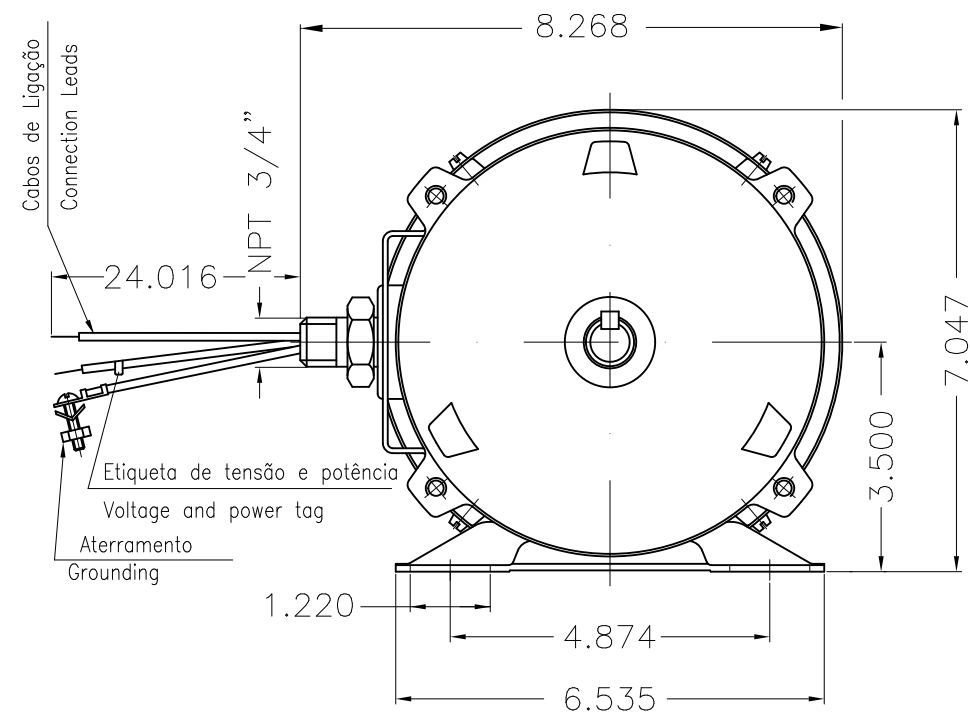
A

B

C

D

E



Sealing cement in the leads outlet special					
Rotation CW and CCW					
Mounting NEMA F-1					
Mounting B3R(D)					
				HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR EXPLOSION PROOF FRAME B56EX IP44 TEFC	PREVIEW		
CHECKED			WDD	00	
RELEASED			SHEET	1 / 1	
REL. DATE	WMO	Jaragua do Sul	Product Engineering		

1/2 HP 04 Poles 60 Hz