

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Single-Phase Product code : 10741532

Frame	: D56EX	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.75 HP (0.550 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	: 11.0/5.40-5.50 A	Protection degree	: IP44
L. R. Amperes	: 70.4/34.6-35.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code M)	Mounting	: F-1
No load current	: 8.40/3.62-4.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 50.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 0.309 kgfm	Approx. weight ³	: 19.1 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 300 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0053 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	57.0	65.0	71.5	Max. traction	: 20 kgf
Power Factor	0.42	0.53	0.61	Max. compression	: 39 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
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Date	26/10/2024		1 / 2	

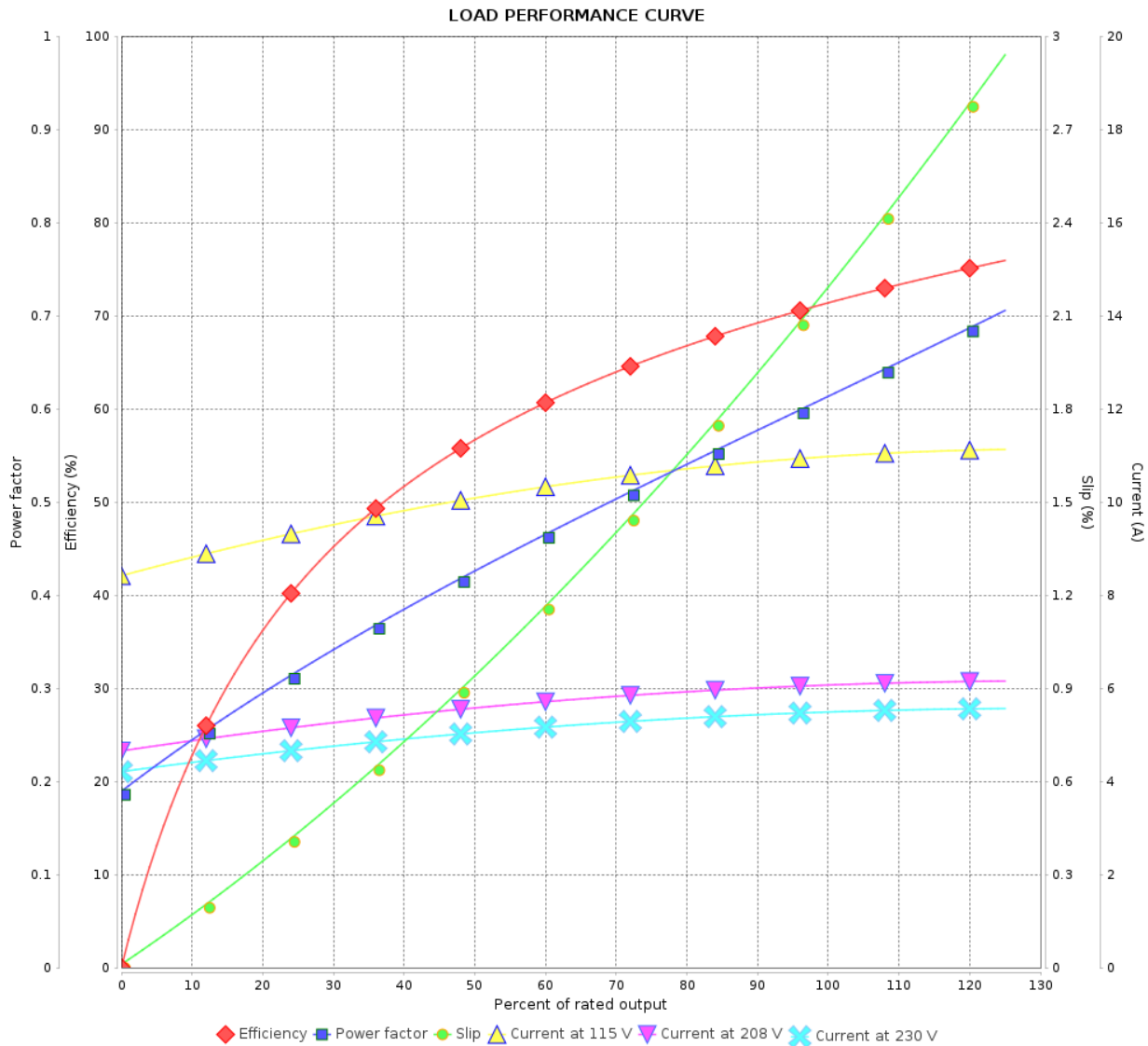
LOAD PERFORMANCE CURVE

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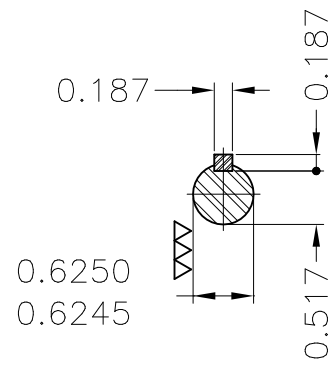
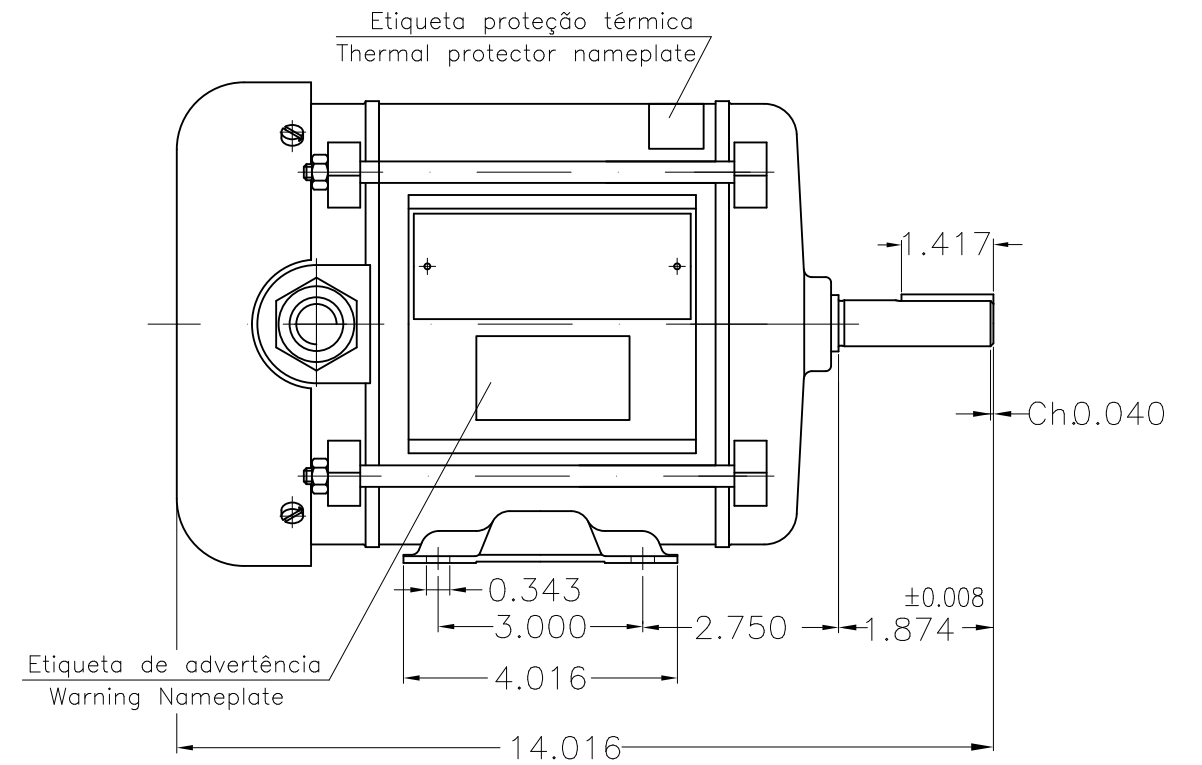
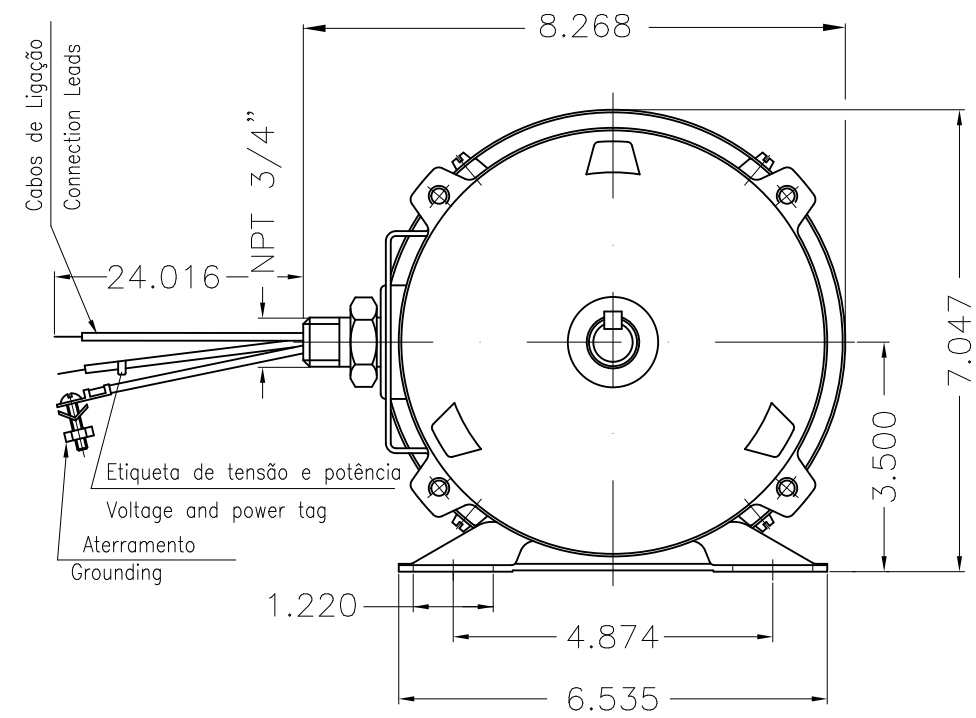


Performance : 115/208-230 V 60 Hz 4P

Rated current : 11.0/5.40-5.50 A
 LRC : 6.4
 Rated torque : 0.309 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0053 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : B
 Service factor :
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Mounting B3R(D)										
					HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR EXPLOSION PROOF			PREVIEW			WDD 00		
CHECKED		FRAME D56EX IP44 TEFC			SHEET			1 / 1		
RELEASED		REL. DATE			Product Engineering					
		WMO		Jaragua do Sul						

3/4 HP 04 Poles 60 Hz