

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
Performed by				
Checked by			Page	Revision
Date	26/10/2024		1 / 2	

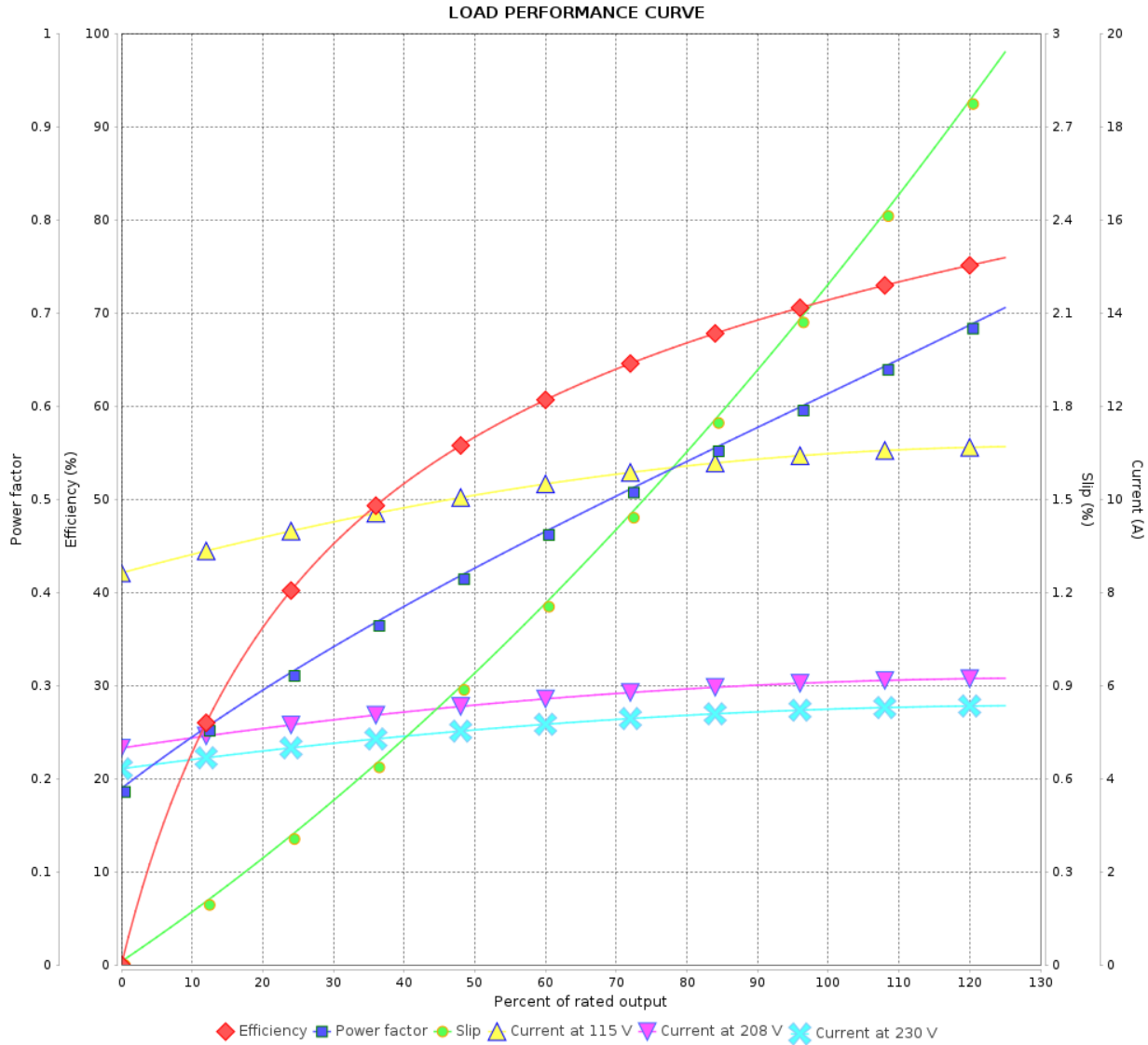
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

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

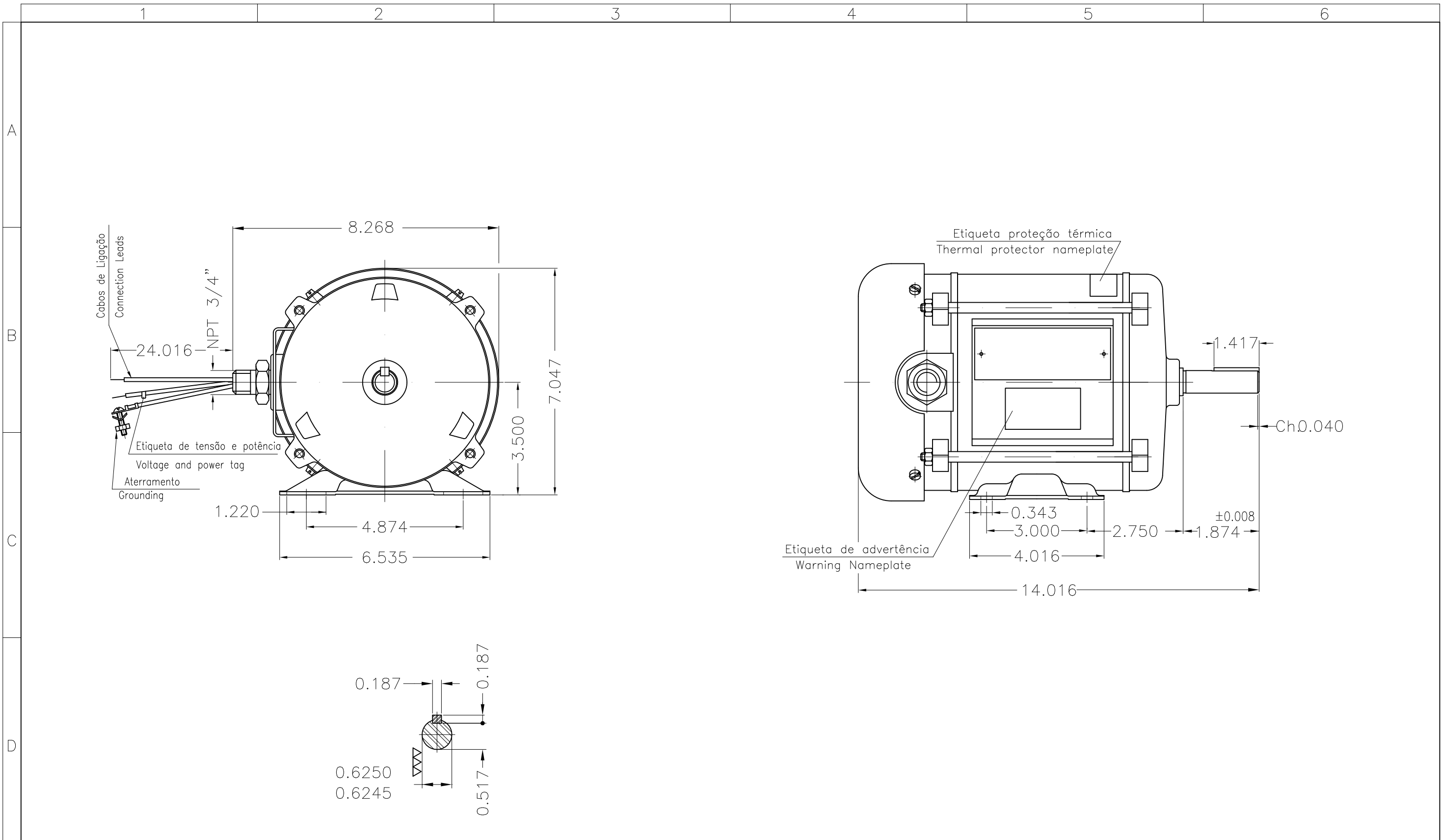


Performance : 115/208-230 V 60 Hz 4P

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
Performed by			Page 2 / 2	Revision
Checked by				
Date	26/10/2024			



3/4 HP 04 Poles 60 Hz

A

Mounting B3R(D)					
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR EXPLOSION PROOF FRAME D56EX IP44 TEFC			
CHECKED					
RELEASED					
REL. DATE	WMO	Jaragua do Sul	Product Engineering		

	HYBRISUSER				00
PREVIEW					
WDD		00			
SHEET	1 / 1				

