DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Explosion Proof Single-Phase Product code : 10963957

Frame	: D56EX	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]	: 20.4 kg
Locked rotor torque	: 190 %		
Breakdown torque	: 210 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0060 kgm²		

Output	50%	75%	100%
Efficiency (%)	72.1	74.7	74.9
Power Factor	0.56	0.68	0.75

Foundation loads

Max. traction	: 18 kgf
Max. compression	: 38 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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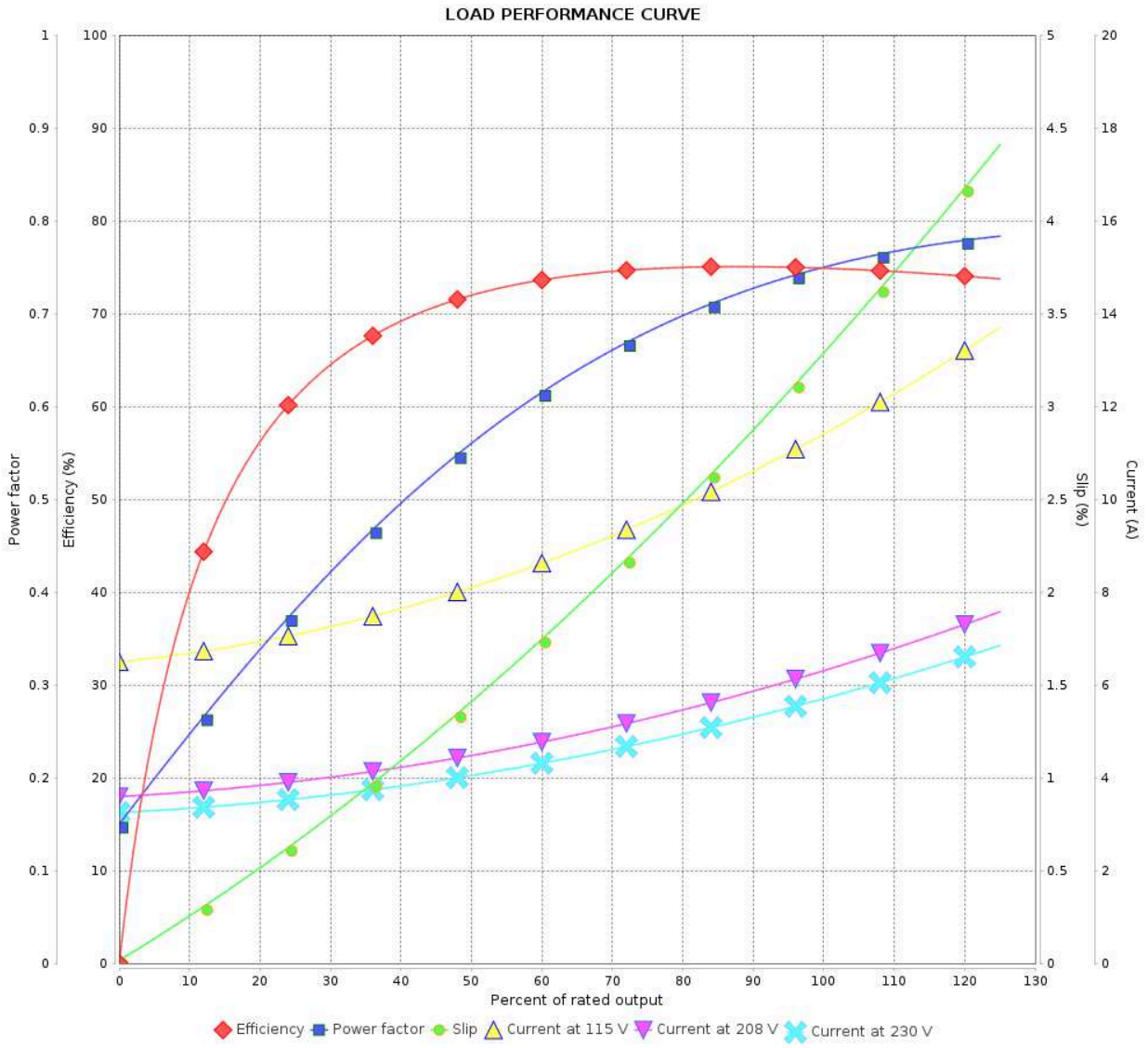
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Explosion Proof Single-Phase Product code : 10963957

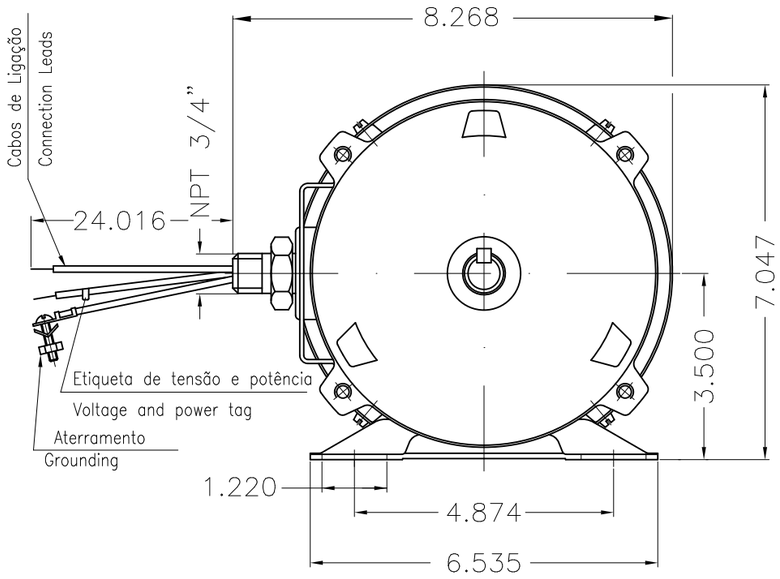


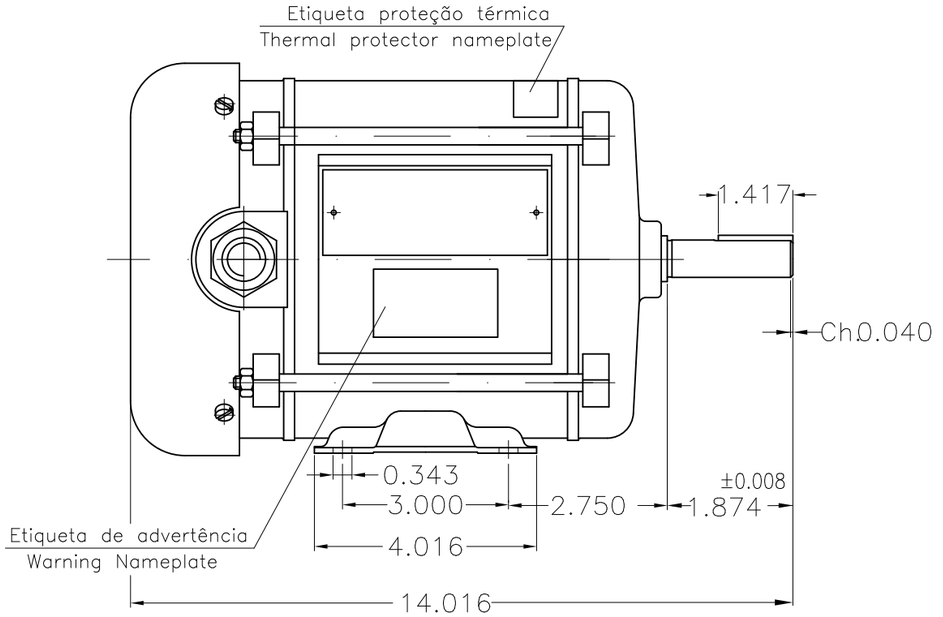
Performance	: 115/208-230 V 60 Hz 4P		
Rated current	: 11.4/6.00-5.70 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.417 kgfm	Insulation class	: B
Locked rotor torque	: 190 %	Service factor	:
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm		

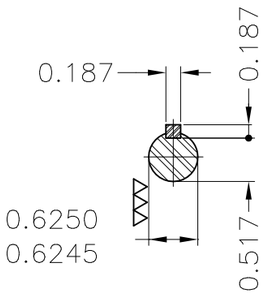
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Mounting B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR EXPLOSION PROOF	PREVIEW		
CHECKED		FRAME D56EX IP44 TEFC	WDD	00	
RELEASED					
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

1 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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