DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Explosion Proof Single-Phase Product code : 18291550

Frame	: A56CEX	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.25 HP (0.18 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 115/208-230 V	Ambient temperature	: -20°C to +40°C
Poles	: 4	Altitude	: 1000 m.a.s.l.
Rated current	: 4.37/2.10-2.18 A	Protection degree	: IP44
	: 6.5x(Code P)	Cooling method	: IC411 - TEFC
Rated speed	: 1760 rpm	Mounting	: F-1
Rated torque	: 0.103 kgfm	Rotation[1]	: Both (CW and CCW)
Insulation class	: B	Starting method	: Direct On Line
Service factor	: 1.15	Approx. weight[3]	: 13.3 kg
Moment of inertia (J)	: 0.0026 kgm²		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	52.0	61.0	64.0
Power Factor	0.00	0.40	0.49	0.56

Foundation loads

Max. traction : 3 kgf

Max. compression : 16 kgf

		Drive end	Non drive end
Bearing type	:	6203 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
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	28/04/2026		1 / 2	

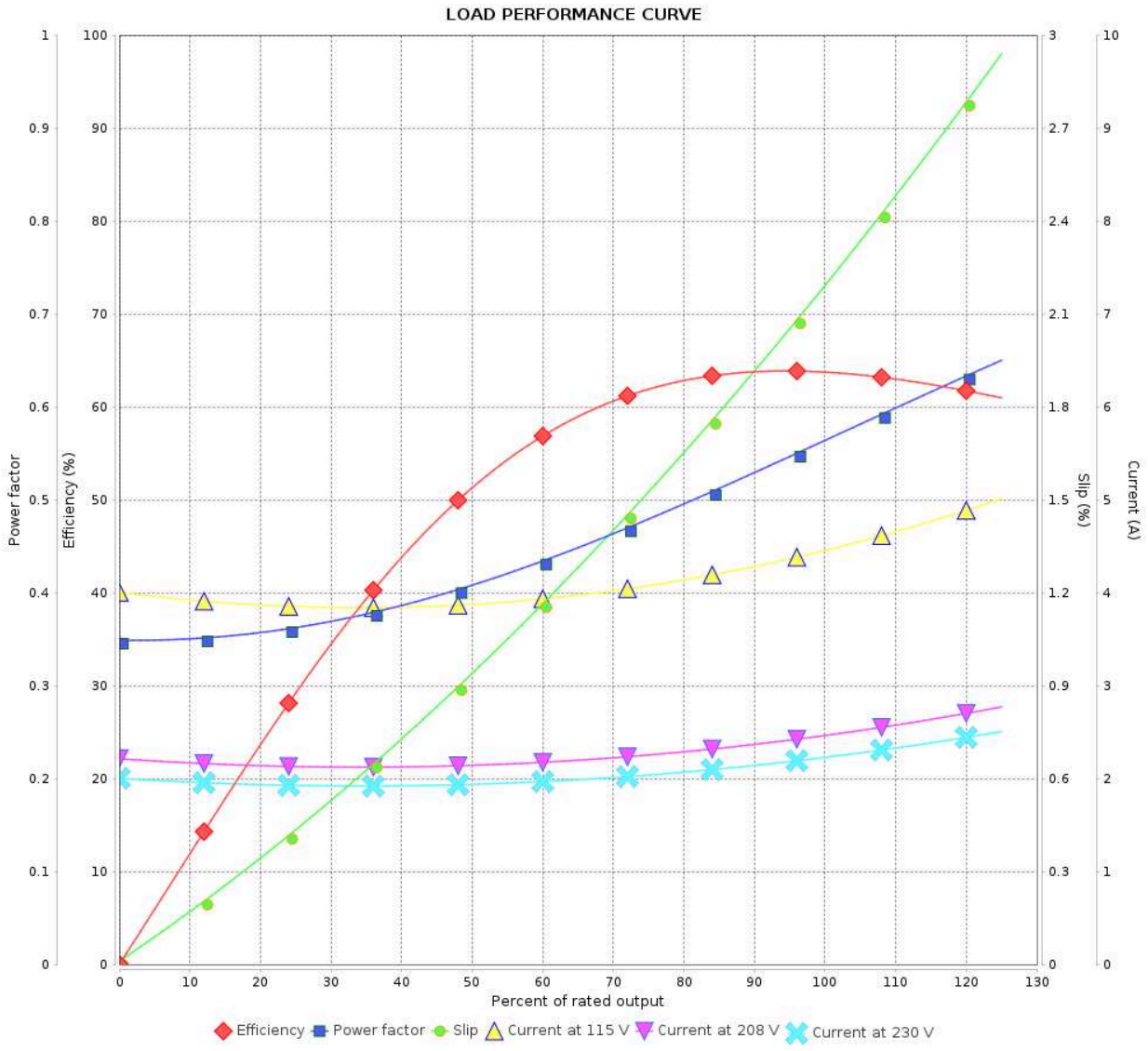
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer :

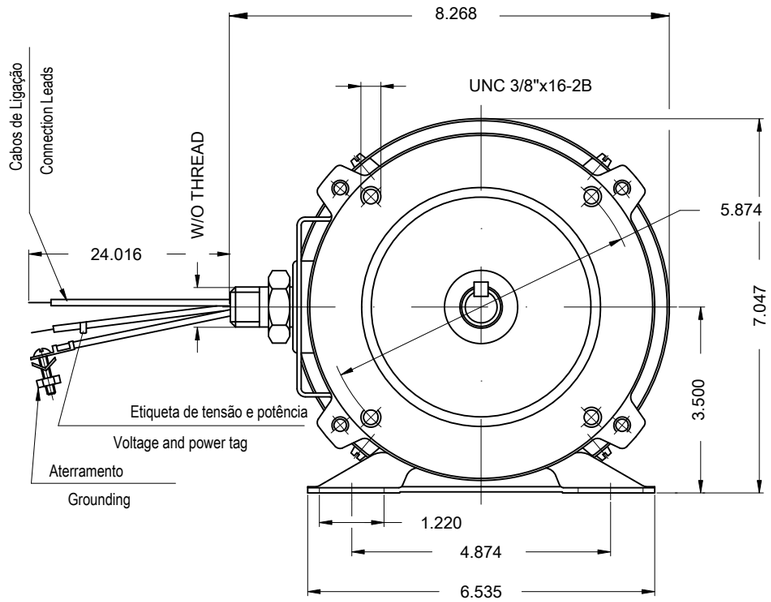
Product line : Explosion Proof Single-Phase Product code : 18291550

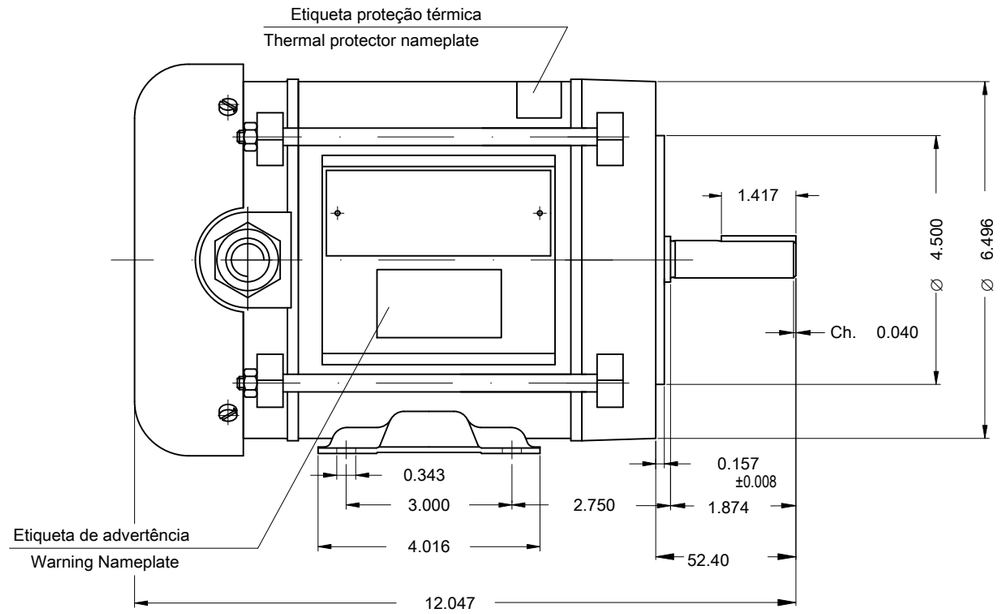


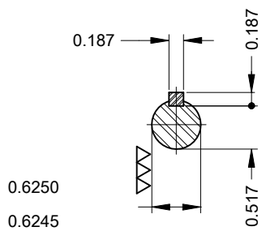
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Rotation CW and CCW

Sealing cement in the leads outlet special

Mounting NEMA F-1

Mounting B34D

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

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR EXPLOSION PROOF	PREVIEW		
CHECKED		FRAME A56CEX IP44 TEFC	WDD	00	
RELEASED					
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

1/4 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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