

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10668199

Frame	: B56EX	Locked rotor time	: 27s (cold) 15s (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	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 0.650 A	Protection degree	: IP44
L. R. Amperes	: 4.42 A	Cooling method	: IC411 - TEFC
LRC	: 6.8x(Code K)	Mounting	: F-1
No load current	: 0.500 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level ²	: 50.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 0.207 kgfm	Approx. weight ³	: 14.9 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 330 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0034 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	70.0	75.5	77.5	Max. traction	: 14 kgf
Power Factor	0.52	0.64	0.73	Max. compression	: 29 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
Performed by		Page 1 / 3 Revision		
Checked by				
Date	26/10/2024			

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3Revision	
Checked by					
Date	26/10/2024				

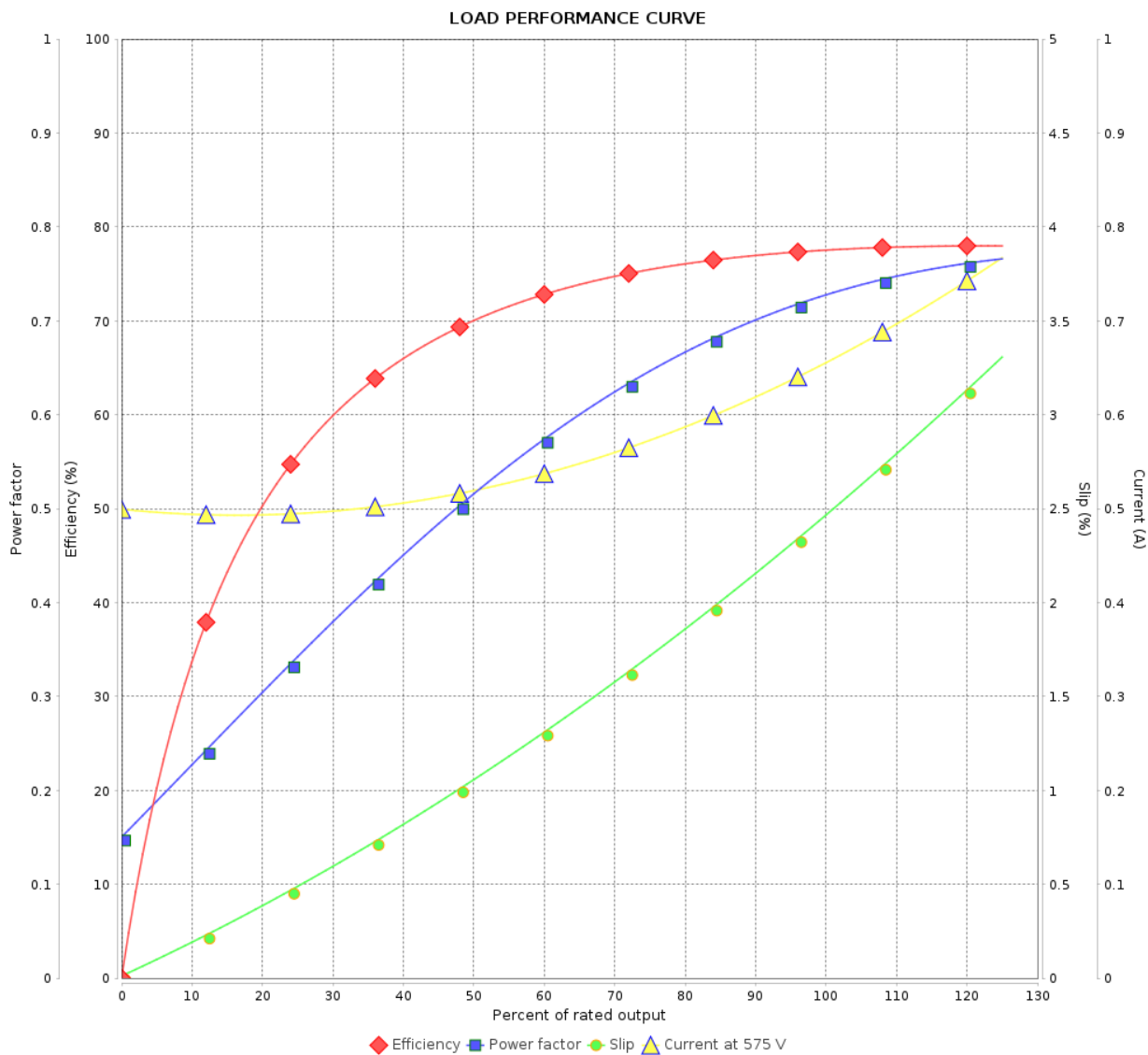
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10668199

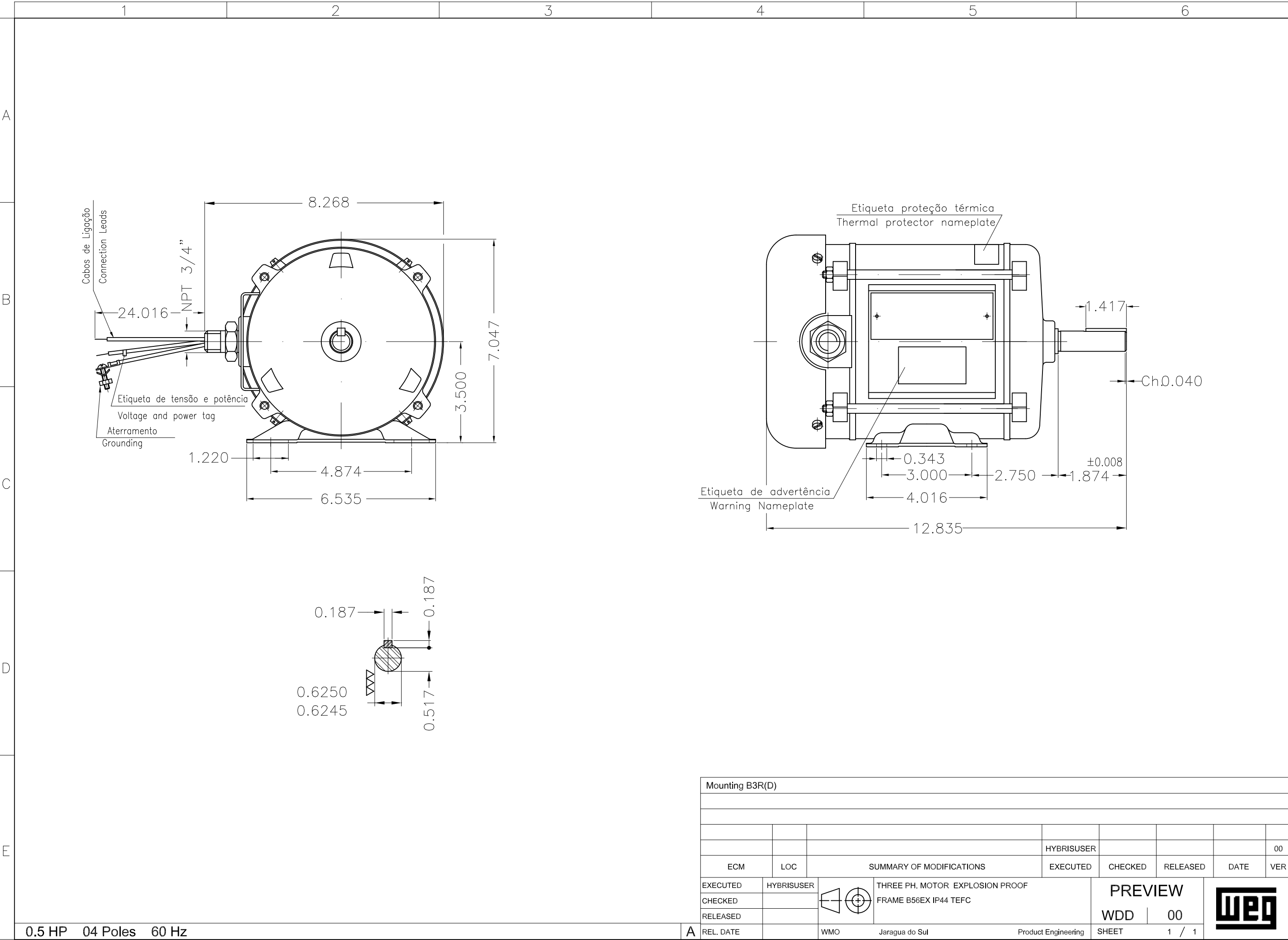


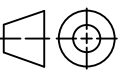
Performance : 575 V 60 Hz 4P

Rated current : 0.650 A
LRC : 6.8
Rated torque : 0.207 kgfm
Locked rotor torque : 220 %
Breakdown torque : 330 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0034 kgm²
Duty cycle : Cont.(S1)
Insulation class : B
Service factor : 1.15
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	 THREE PH. MOTOR EXPLOSION PROOF FRAME B56EX IP44 TEFC				PREVIEW			
CHECKED						WDD	00		
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

0.5 HP 04 Poles 60 Hz

A