

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 14224001

Frame	: A56CEX	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 0.25 HP (0.18 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	: 0.500 A	Protection degree	: IP44
L. R. Amperes	: 2.50 A	Cooling method	: IC411 - TEFC
LRC	: 5.0x(Code L)	Mounting	: F-1
No load current	: 0.380 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 50.0 dB(A)
Slip	: 2.78 %	Vibration	: A
Rated torque	: 0 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 280 %	Approx. weight ³	: 12.4 kg
Breakdown torque	: 300 %		: 207N (ISO 12944 - C2)
Insulation class	: B		: RAL 7022
Service factor	: 1.15		
Moment of inertia (J)	: 0.0023 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	50.5	57.5	64.0	Max. traction	: 3 kgf
Power Factor	0.40	0.48	0.58	Max. compression	: 16 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.

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Revision

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Customer :

Thermal protection

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

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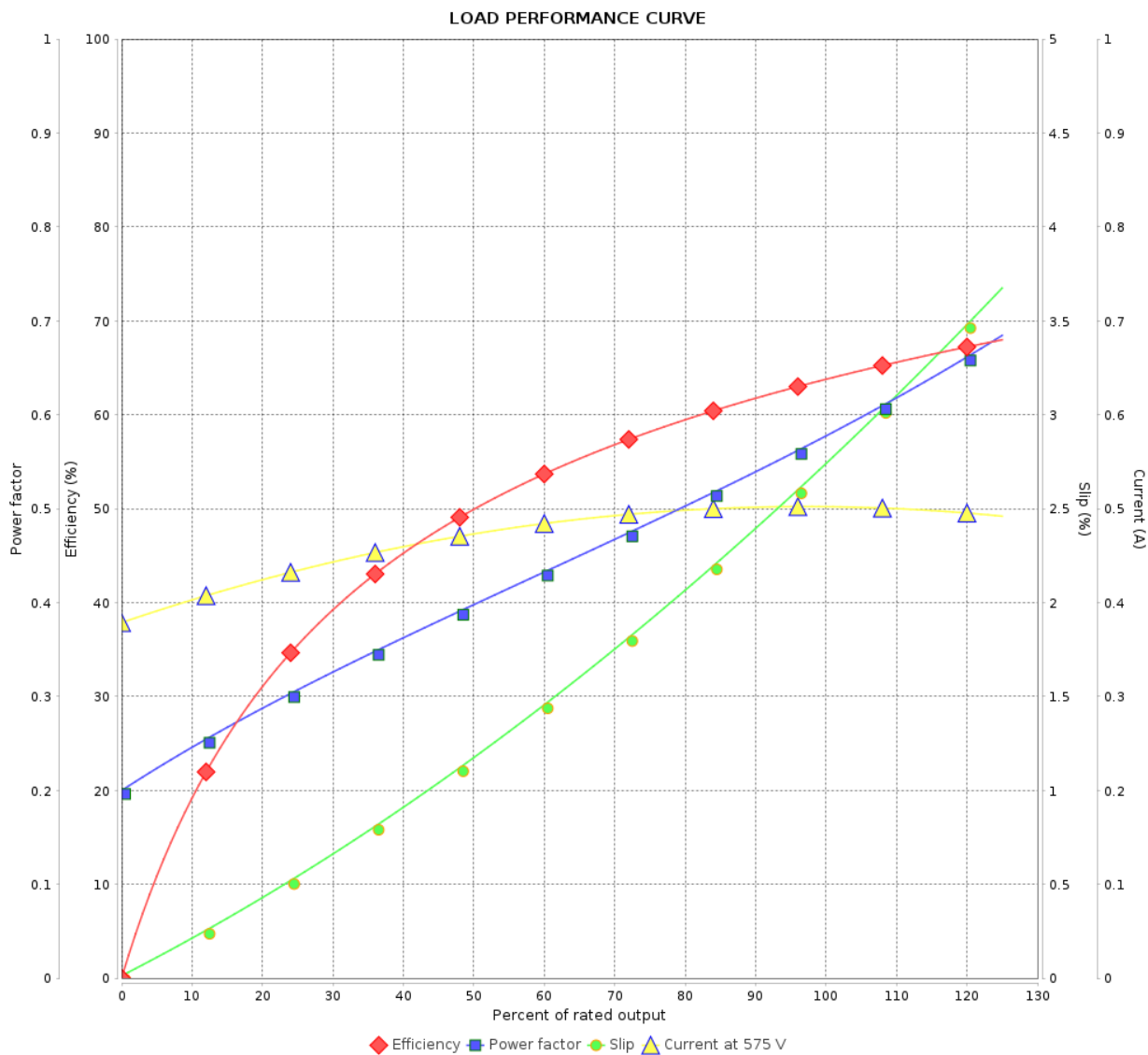
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 14224001



Performance : 575 V 60 Hz 4P

Rated current : 0.500 A
LRC : 5.0
Rated torque : 0 kgfm
Locked rotor torque : 280 %
Breakdown torque : 300 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0023 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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