

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase Product code : 16118617

Frame	: 213/5JM	Locked rotor time	: 70s (cold) 39s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 3.29 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 22.4 A	Mounting	: F-1
LRC	: 6.8x(Code J)	Rotation ¹	: Both (CW and CCW)
No load current	: 1.68 A	Noise level ²	: 55.0 dB(A)
Rated speed	: 1180 rpm	Vibration	: A
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 1 kgfm	Approx. weight ³	: 44.6 kg
Locked rotor torque	: 200 %		: 207N (ISO 12944 - C2)
Breakdown torque	: 250 %		: Munsell N 1 - Matte
Insulation class	: F	Design	: B
Service factor	: 1.15		
Moment of inertia (J)	: 0.0342 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.5	87.5	88.5	Max. traction	: 59 kgf
Power Factor	0.60	0.70	0.76	Max. compression	: 111 kgf

	Drive end	Non drive end
Bearing type	: 6209 ZZ	: 6206 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				
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LOAD PERFORMANCE CURVE

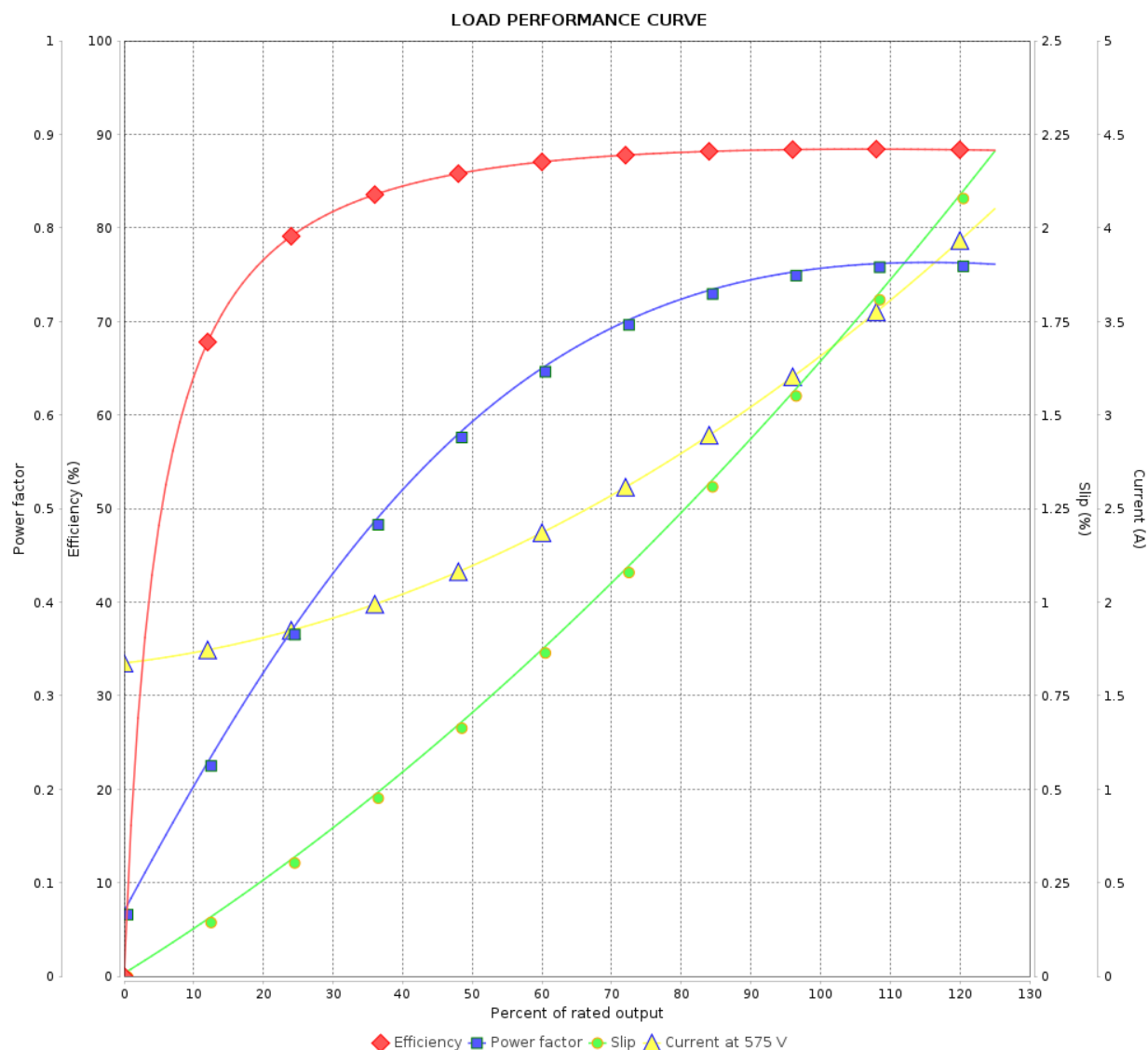
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA
Premium Efficiency Three-Phase

Product code : 16118617



Performance : 575 V 60 Hz 6P

Rated current : 3.29 A
LRC : 6.8
Rated torque : 1 kgfm
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 1180 rpm

Moment of inertia (J) : 0.0342 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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