

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Single-Phase Product code : 17997726

Frame	: 56J	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 13.5-12.2 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 111-100 A	Mounting	: F-1
LRC	: 8.2x(Code J)	Rotation ¹	: CCW
No load current	: 3.36-3.90 A	Noise level ²	: 58.0 dB(A)
Rated speed	: 3500 rpm	Vibration	: A
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0 kgfm	Approx. weight ³	: 19.2 kg
Locked rotor torque	: 220 %		: 207N (ISO 12944 - C2)
Breakdown torque	: 280 %	Design	: L
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0040 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	81.0	84.1	Max. traction	: 45 kgf
Power Factor	0.87	0.92	0.93	Max. compression	: 66 kgf

	Drive end	Non drive end
Bearing type	: 6203 2RS	: 6202 2RS
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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LOAD PERFORMANCE CURVE

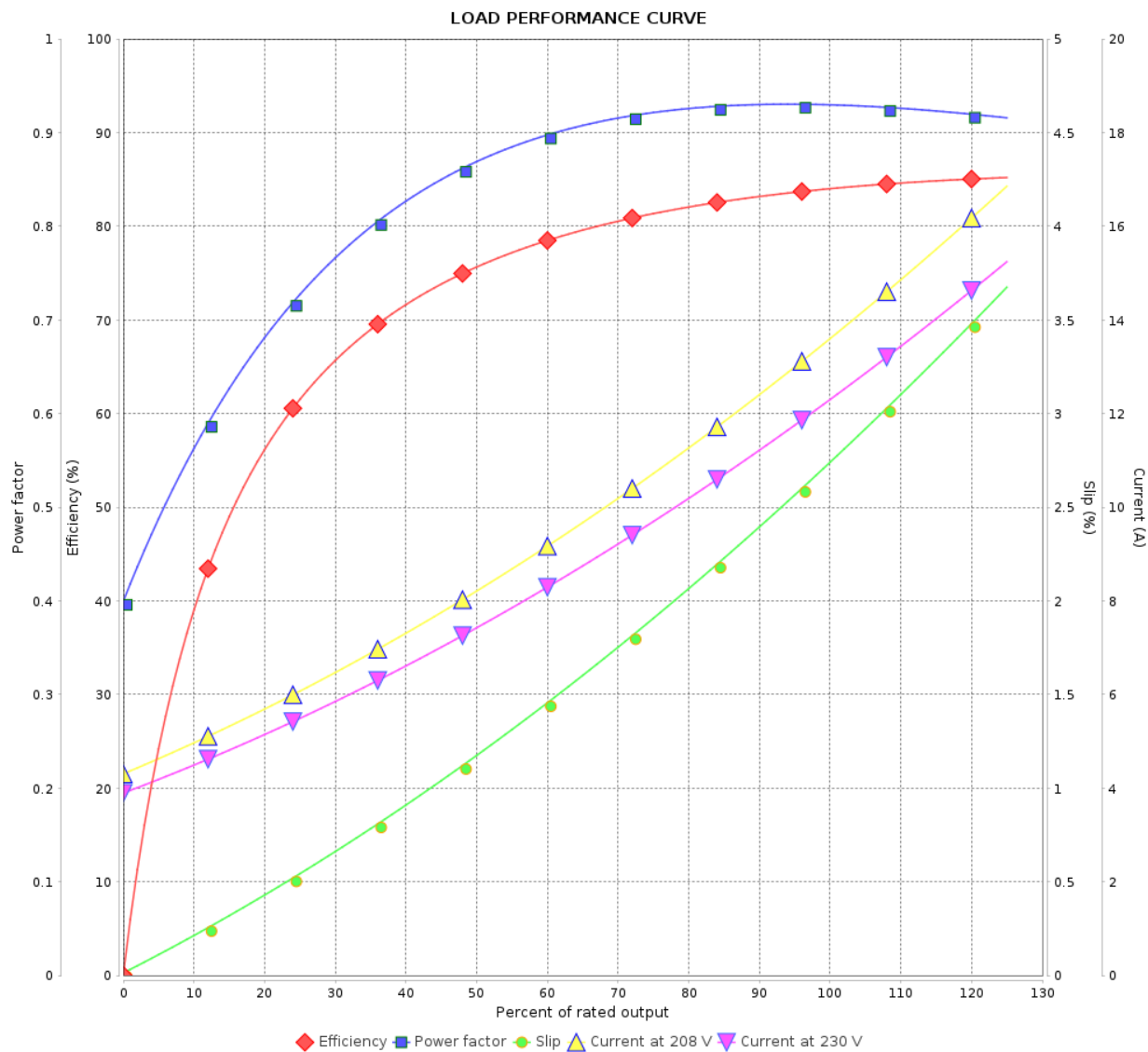
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type
Single-Phase

Product code : 17997726



Performance : 208-230 V 60 Hz 2P

Rated current : 13.5-12.2 A
LRC : 8.2
Rated torque : 0 kgfm
Locked rotor torque : 220 %
Breakdown torque : 280 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0040 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : L

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