

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA Premium Efficiency Three-Phase Product code : 13311846

Frame	: 254/6JP	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 20 HP (15 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	: 19.8 A	Protection degree	: IP55
L. R. Amperes	: 132 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code H)	Mounting	: F-1
No load current	: 8.89 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.94 %	Vibration	: A
Rated torque	: 8 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 270 %	Approx. weight ³	: 103 kg
Breakdown torque	: 300 %	Painting plan	: 207N (ISO 12944 - C2)
Insulation class	: F	Color	: Munsell N 1 - Matte
Service factor	: 1.15	Design	: B
Moment of inertia (J)	: 0.1113 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.7	92.4	93.0	Max. traction	: 330 kgf
Power Factor	0.66	0.77	0.82	Max. compression	: 446 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.2	5.8	5.4	4.3	2.9	2.3	1.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 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.

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LOAD PERFORMANCE CURVE

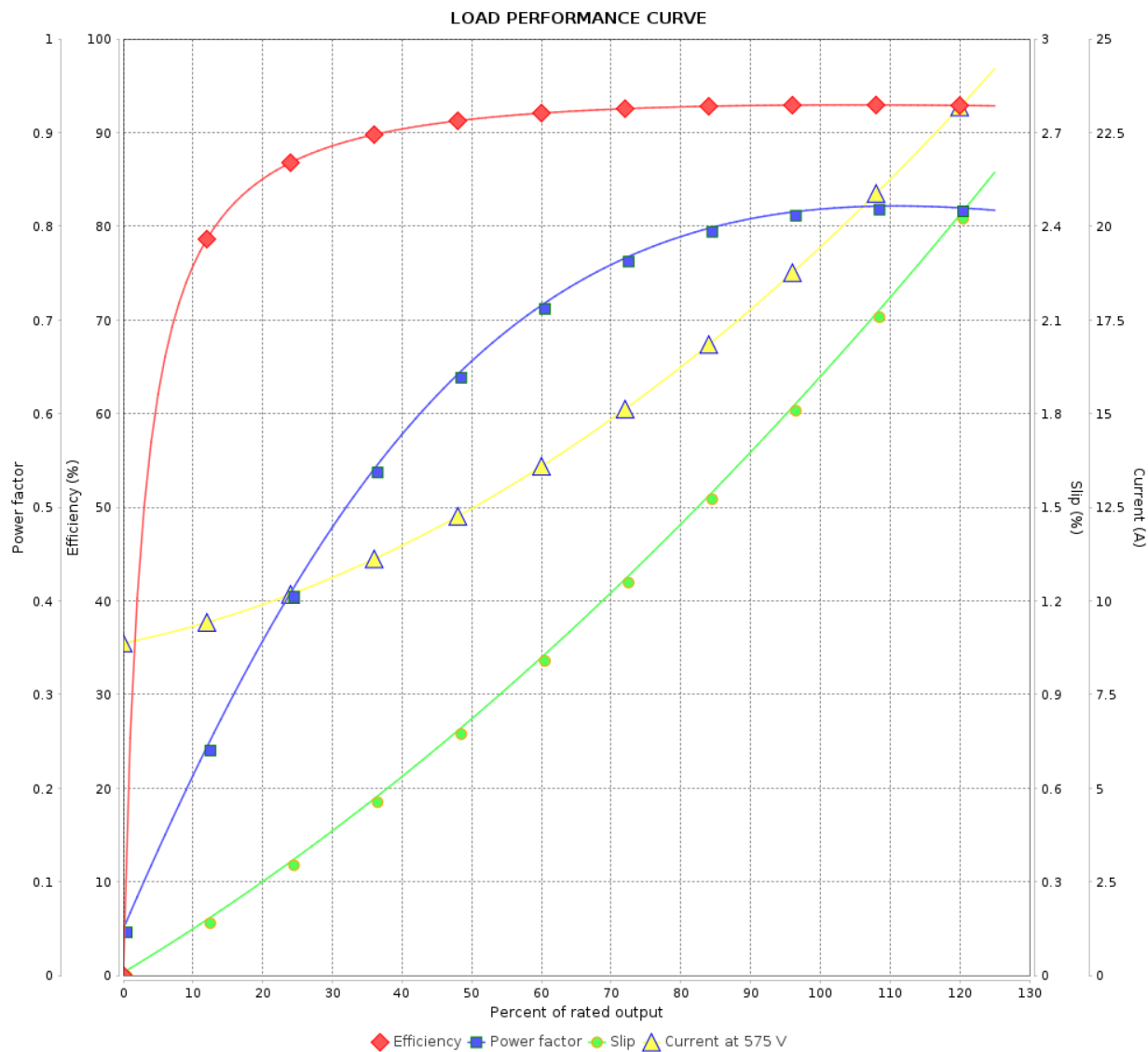
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13311846



Performance : 575 V 60 Hz 4P

Rated current : 19.8 A
LRC : 6.7
Rated torque : 8 kgfm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.1113 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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