

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|---|---|---|---------|----------|
| Customer | : | | | |
| Product line | : Jet Pump - J type Single-Phase | Product code : 14733581 | | |
| Frame | : 56J | Cooling method : IC01 - ODP | | |
| Insulation class | : F | Mounting : F-1 | | |
| Duty cycle | : Cont.(S1) | Rotation ¹ : CCW | | |
| Ambient temperature | : -20°C to +40°C | Starting method : Direct On Line | | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ : 15.6 kg | | |
| Design | : L | Moment of inertia (J) : 0.0027 kgm ² | | |
| Output [HP] | | 1.5 | | |
| Poles | | 2 | | |
| Frequency [Hz] | | 60 | | |
| Rated voltage [V] | | 115/208-230 | | |
| Rated current [A] | | 12.4/6.86-6.20 | | |
| L. R. Amperes [A] | | 102/56.3-50.8 | | |
| LRC [A] | | 8.2x(Code J) | | |
| No load current [A] | | 3.20/1.38-1.60 | | |
| Rated speed [RPM] | | 3500 | | |
| Slip [%] | | 2.78 | | |
| Rated torque [kgfm] | | 0.311 | | |
| Locked rotor torque [%] | | 260 | | |
| Breakdown torque [%] | | 270 | | |
| Service factor | | | | |
| Temperature rise | | 80 K | | |
| Locked rotor time | | 18s (cold) 10s (hot) | | |
| Noise level ² | | 58.0 dB(A) | | |
| Efficiency (%) | 25% | | | |
| | 50% | 73.0 | | |
| | 75% | 79.0 | | |
| | 100% | 81.5 | | |
| Power Factor | 25% | | | |
| | 50% | 0.92 | | |
| | 75% | 0.95 | | |
| | 100% | 0.95 | | |
| Bearing type | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS | Foundation loads | | |
| Sealing | : Without Bearing Seal Without Bearing Seal | Max. traction : 19 kgf | | |
| Lubrication interval | : - - | Max. compression : 34 kgf | | |
| Lubricant amount | : - - | | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Notes | | | | |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> | | |
| Rev. | Changes Summary | Performed | Checked | Date |
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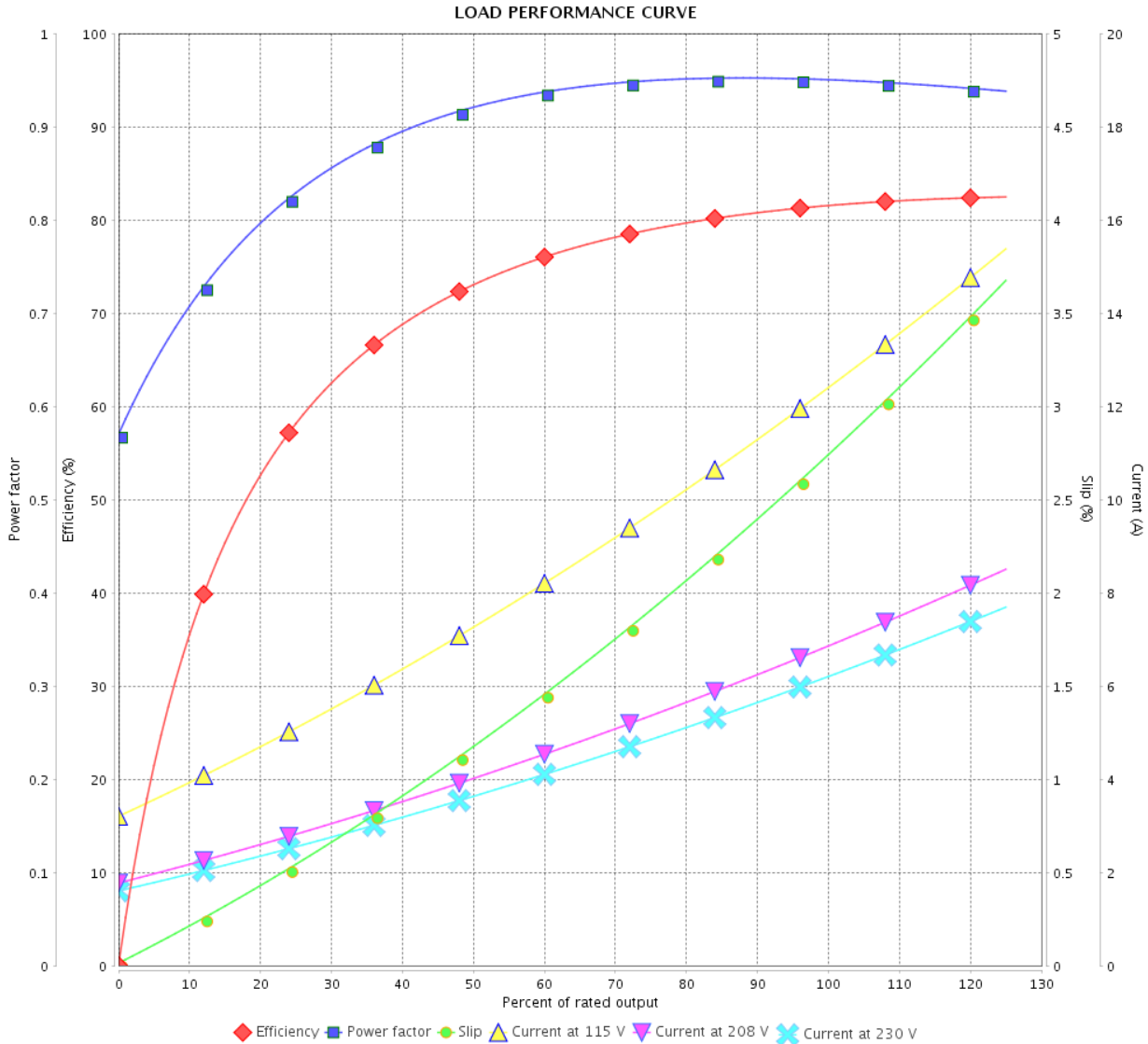
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase Product code : 14733581



Performance : 115/208-230 V 60 Hz 2P

Rated current : 12.4/6.86-6.20 A
 LRC : 8.2
 Rated torque : 0.311 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 270 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0027 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

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