

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|---|----------------------|---------------------------------|---|----------|
| Customer : | | | | |
| Product line | | : Jet Pump - J type Three-Phase | Product code : | 13997358 |
| Frame | : 56J | Cooling method | : IC411 - TEFC | |
| 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 | : 16.3 kg | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0046 kgm ² | |
| Design | : B | | | |
| Output [HP] | 1.5 | | | |
| Poles | 4 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 575 | | | |
| Rated current [A] | 1.62 | | | |
| L. R. Amperes [A] | 13.3 | | | |
| LRC [A] | 8.2x(Code K) | | | |
| No load current [A] | 0.867 | | | |
| Rated speed [RPM] | 1750 | | | |
| Slip [%] | 2.78 | | | |
| Rated torque [kgfm] | 0.622 | | | |
| Locked rotor torque [%] | 270 | | | |
| Breakdown torque [%] | 300 | | | |
| Service factor | 1.15 | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 37s (cold) 21s (hot) | | | |
| Noise level ² | 52.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 85.5 | | |
| | 75% | 86.5 | | |
| | 100% | 86.5 | | |
| Power Factor | 25% | | | |
| | 50% | 0.59 | | |
| | 75% | 0.72 | | |
| | 100% | 0.79 | | |
| Bearing type | : Drive end 6203 ZZ | Non drive end 6202 ZZ | Foundation loads | |
| Sealing | : V'Ring | V'Ring | Max. traction : 52 kgf | |
| Lubrication interval | : - | - | Max. compression : 68 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 |
| | | | | |
| Performed by | | | Page | Revision |
| Checked by | | | | |
| Date | 11/05/2022 | | | |
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LOAD PERFORMANCE CURVE

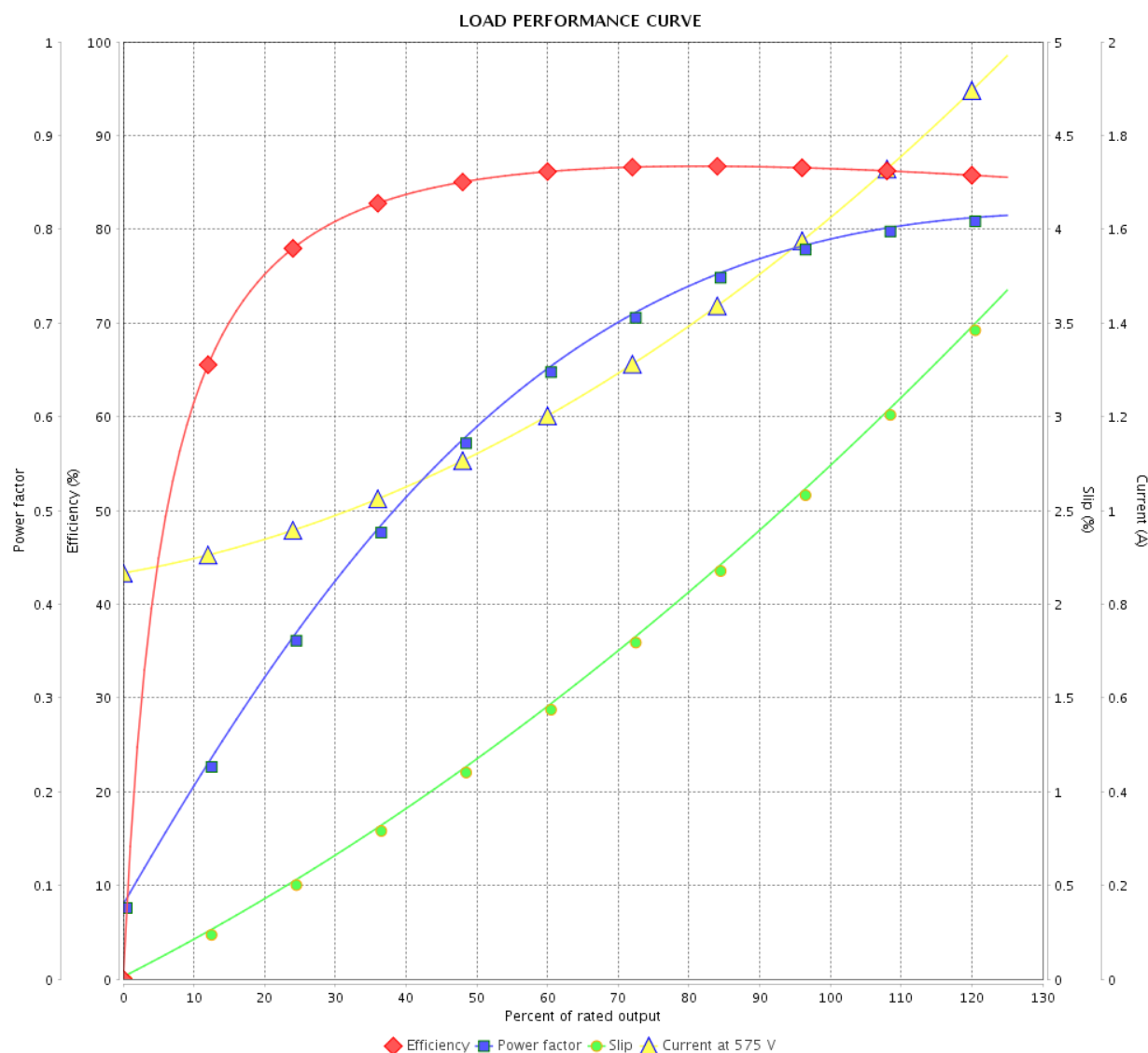
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase

Product code : 13997358



Performance : 575 V 60 Hz 4P

Rated current : 1.62 A
 LRC : 8.2
 Rated torque : 0.622 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0046 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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