

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|---|---|---|---------|----------|
| Customer | : | | | |
| Product line | : Jet Pump - J type Single-Phase | Product code : 14658765 | | |
| 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 : 11.4 kg | | |
| Design | : N | Moment of inertia (J) : 0.0018 kgm ² | | |
| Output [HP] | | 0.75 | | |
| Poles | | 2 | | |
| Frequency [Hz] | | 60 | | |
| Rated voltage [V] | | 115/208-230 | | |
| Rated current [A] | | 6.80/3.76-3.40 | | |
| L. R. Amperes [A] | | 58.5/32.3-29.2 | | |
| LRC [A] | | 8.6x(Code K) | | |
| No load current [A] | | 2.40/1.03-1.20 | | |
| Rated speed [RPM] | | 3510 | | |
| Slip [%] | | 2.50 | | |
| Rated torque [kgfm] | | 0.155 | | |
| Locked rotor torque [%] | | 300 | | |
| Breakdown torque [%] | | 300 | | |
| Service factor | | | | |
| Temperature rise | | 80 K | | |
| Locked rotor time | | 32s (cold) 18s (hot) | | |
| Noise level ² | | 58.0 dB(A) | | |
| Efficiency (%) | 25% | | | |
| | 50% | 64.0 | | |
| | 75% | 71.0 | | |
| | 100% | 76.2 | | |
| Power Factor | 25% | | | |
| | 50% | 0.88 | | |
| | 75% | 0.92 | | |
| | 100% | 0.93 | | |
| 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 : 9 kgf | | |
| Lubrication interval | : - - | Max. compression : 20 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 |
| Performed by | | | | |
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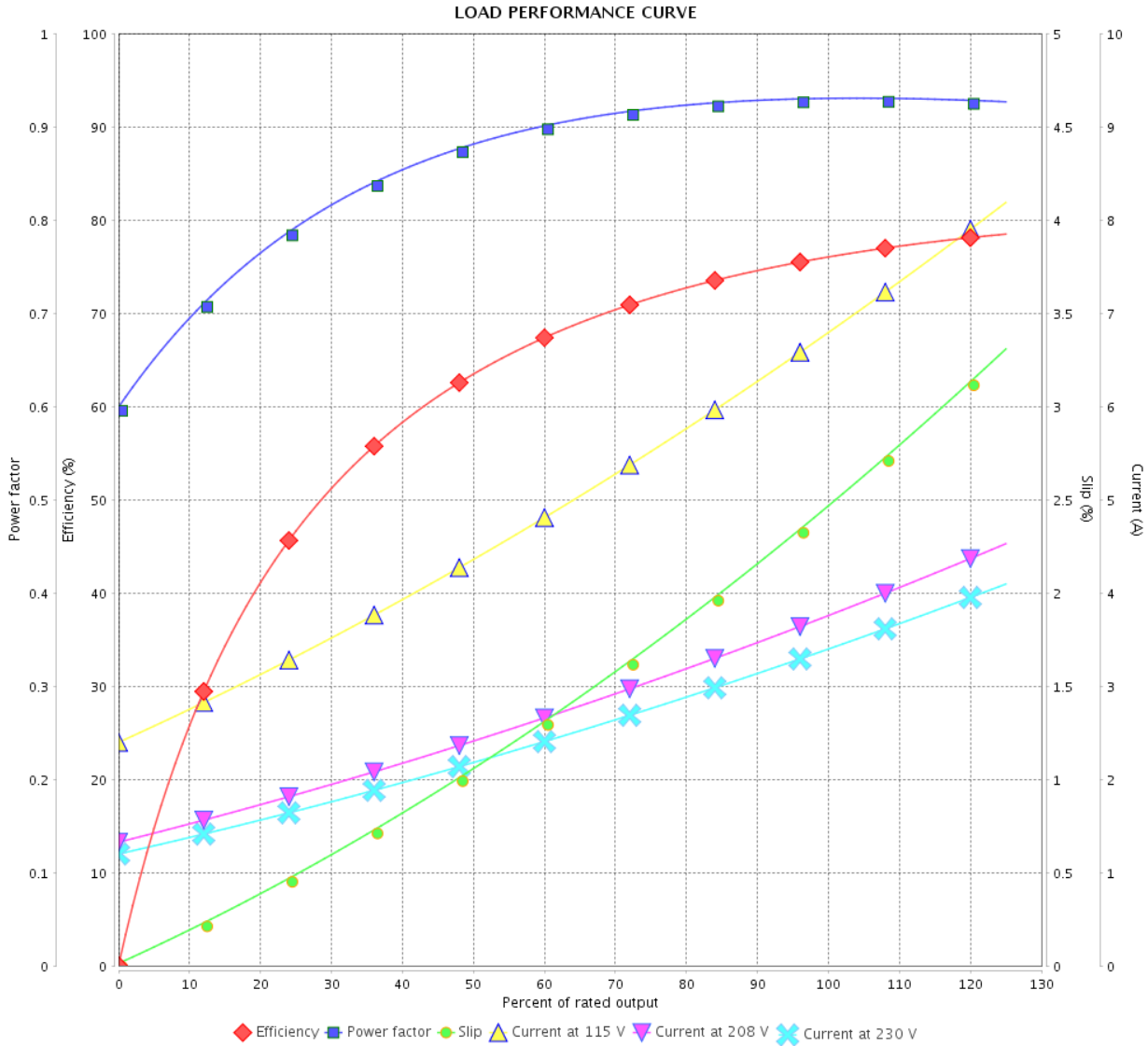
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase Product code : 14658765



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

| | | | |
|---------------------|--------------------|-----------------------|---------------------------|
| Rated current | : 6.80/3.76-3.40 A | Moment of inertia (J) | : 0.0018 kgm ² |
| LRC | : 8.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.155 kgfm | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 3510 rpm | Design | : N |

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