

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|----------------------------|--|---------------------------|----------|
| Customer : | | | | |
| Product line | : Three-Phase | Product code : | 14562089 | |
| Frame | : W56C | Cooling method | : IC411 - TEFC | |
| Insulation class | : F | Mounting | : F-1 | |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) | |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ | : 6.8 kg | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0012 kgm ² | |
| Output [HP] | 0.25 | | | |
| Poles | 4 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 575 | | | |
| Rated current [A] | 0.374 | | | |
| L. R. Amperes [A] | 2.10 | | | |
| LRC [A] | 5.6x(Code K) | | | |
| No load current [A] | 0.302 | | | |
| Rated speed [RPM] | 1740 | | | |
| Slip [%] | 3.33 | | | |
| Rated torque [kgfm] | 0.104 | | | |
| Locked rotor torque [%] | 240 | | | |
| Breakdown torque [%] | 320 | | | |
| Service factor | 1.15 | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 50s (cold) 28s (hot) | | | |
| Noise level ² | 50.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 59.5 | | |
| | 75% | 66.0 | | |
| | 100% | 70.0 | | |
| Power Factor | 25% | | | |
| | 50% | 0.48 | | |
| | 75% | 0.60 | | |
| | 100% | 0.69 | | |
| Bearing type | : <u>Drive end</u> 6203 ZZ | <u>Non drive end</u> 6202 ZZ | Foundation loads | |
| Sealing | : V'Ring | V'Ring | Max. traction : 7 kgf | |
| Lubrication interval | : - | - | Max. compression : 14 kgf | |
| 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. | | |
| Rev. | Changes Summary | Performed | Checked | Date |
| Performed by | | | | |
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LOAD PERFORMANCE CURVE

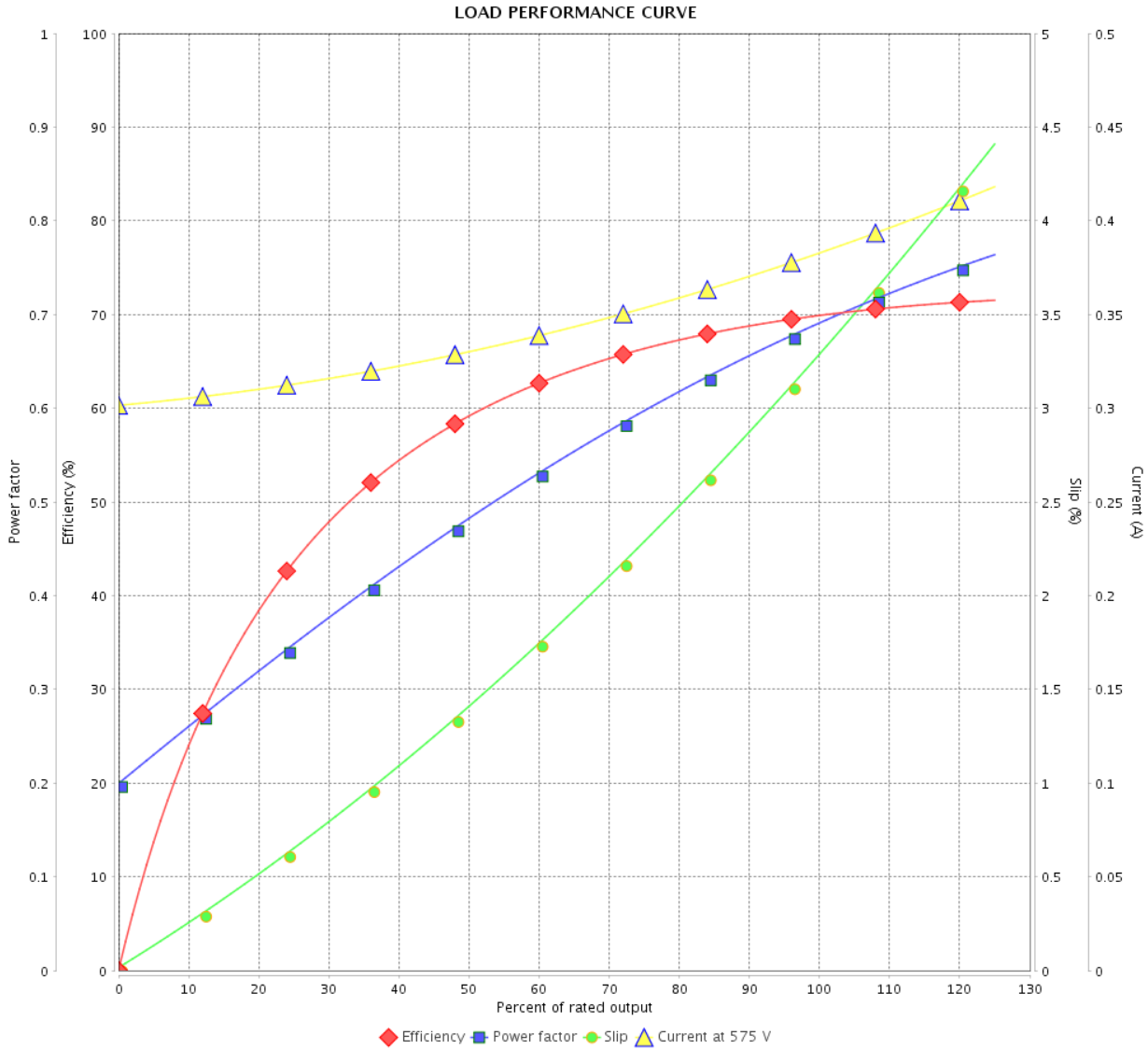
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 14562089



Performance : 575 V 60 Hz 4P

Rated current : 0.374 A
 LRC : 5.6
 Rated torque : 0.104 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0012 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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