

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|---|-----------------------------------|------------------------------|---|----------|----------|
| Customer | : | | | | |
| Product line | : Standard Efficiency Three-Phase | Product code | : 12894852 | | |
| Frame | : 56C | 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 | : 9.9 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0025 kgm ² | | |
| Output [HP] | 0.5 | | | | |
| Poles | 4 | | | | |
| Frequency [Hz] | 60 | | | | |
| Rated voltage [V] | 575 | | | | |
| Rated current [A] | 0.690 | | | | |
| L. R. Amperes [A] | 4.83 | | | | |
| LRC [A] | 7.0x(Code L) | | | | |
| No load current [A] | 0.480 | | | | |
| Rated speed [RPM] | 1760 | | | | |
| Slip [%] | 2.22 | | | | |
| Rated torque [kgfm] | 0.206 | | | | |
| Locked rotor torque [%] | 240 | | | | |
| Breakdown torque [%] | 300 | | | | |
| Service factor | 1.15 | | | | |
| Temperature rise | 80 K | | | | |
| Locked rotor time | 36s (cold) 20s (hot) | | | | |
| Noise level ² | 52.0 dB(A) | | | | |
| Efficiency (%) | 25% | 65.4 | | | |
| | 50% | 68.0 | | | |
| | 75% | 74.0 | | | |
| | 100% | 77.0 | | | |
| Power Factor | 25% | 0.28 | | | |
| | 50% | 0.48 | | | |
| | 75% | 0.61 | | | |
| | 100% | 0.70 | | | |
| Bearing type | : <u>Drive end</u> 6203 ZZ | <u>Non drive end</u> 6202 ZZ | Foundation loads | | |
| Sealing | : V'Ring | Without Bearing Seal | Max. traction | : 15 kgf | |
| | | | Max. compression | : 24 kgf | |
| Lubrication interval | : - | - | | | |
| 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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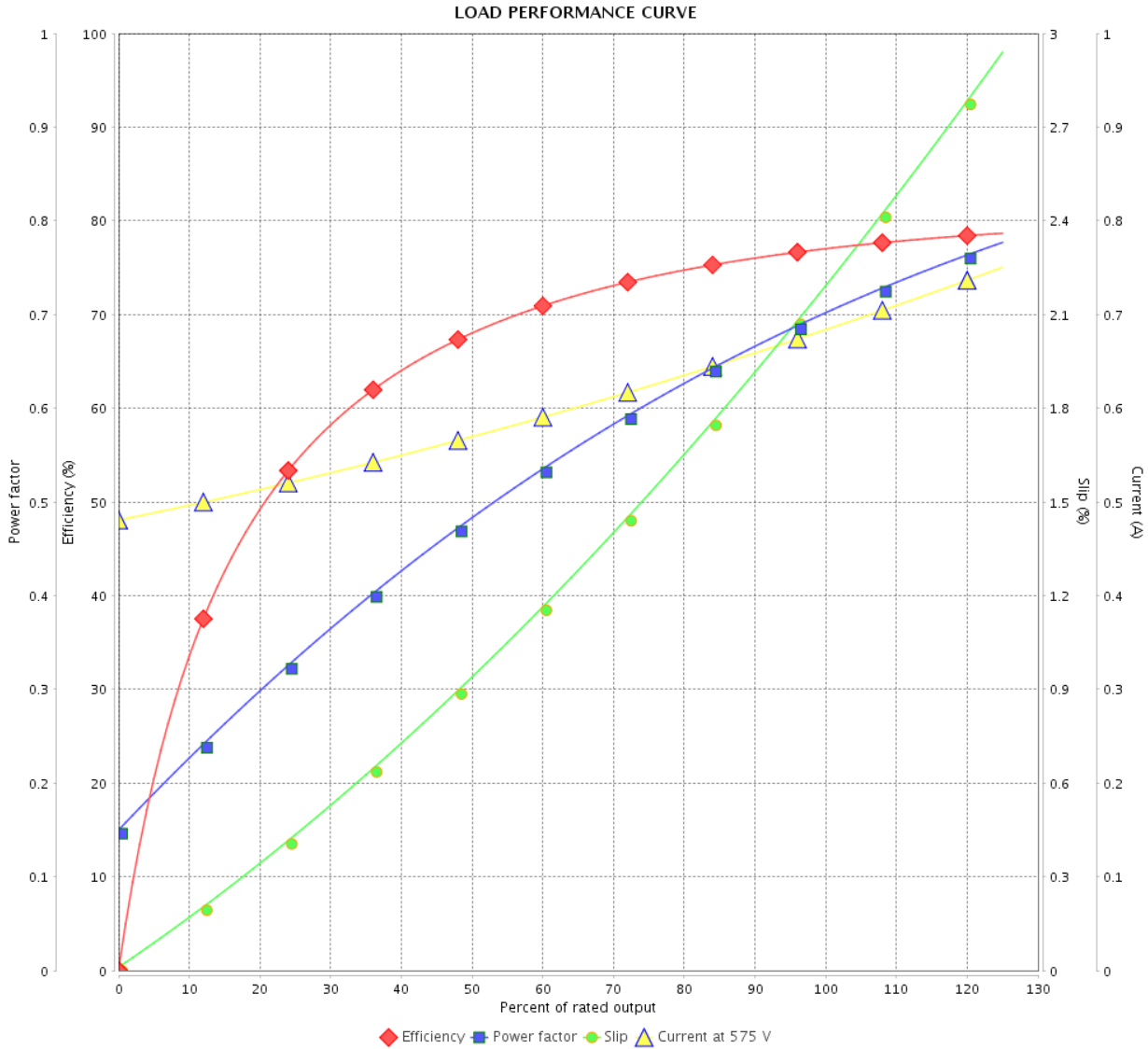
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894852



Performance : 575 V 60 Hz 4P

Rated current : 0.690 A
 LRC : 7.0
 Rated torque : 0.206 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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