

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|---|---|---|---------|----------|
| Customer | : | | | |
| Product line | : Single-Phase | Product code : 13383185 | | |
| Frame | : W56C | Cooling method : IC01 - ODP | | |
| 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 : 8.1 kg | | |
| Design | : N | Moment of inertia (J) : 0.0017 kgm ² | | |
| Output [HP] | | 0.33 | | |
| Poles | | 4 | | |
| Frequency [Hz] | | 60 | | |
| Rated voltage [V] | | 115/208-230 | | |
| Rated current [A] | | 6.24/3.45-3.12 | | |
| L. R. Amperes [A] | | 34.9/19.3-17.5 | | |
| LRC [A] | | 5.6x(Code M) | | |
| No load current [A] | | 5.40/2.33-2.70 | | |
| Rated speed [RPM] | | 1735 | | |
| Slip [%] | | 3.61 | | |
| Rated torque [kgfm] | | 0.138 | | |
| Locked rotor torque [%] | | 330 | | |
| Breakdown torque [%] | | 280 | | |
| Service factor | | | | |
| Temperature rise | | 80 K | | |
| Locked rotor time | | 21s (cold) 12s (hot) | | |
| Noise level ² | | 50.0 dB(A) | | |
| Efficiency (%) | 25% | | | |
| | 50% | 49.0 | | |
| | 75% | 57.0 | | |
| | 100% | 60.0 | | |
| Power Factor | 25% | | | |
| | 50% | 0.41 | | |
| | 75% | 0.50 | | |
| | 100% | 0.58 | | |
| Bearing type | : <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ | Foundation loads | | |
| Sealing | : Without Bearing Seal Without Bearing Seal | Max. traction : 8 kgf | | |
| Lubrication interval | : - - | Max. compression : 16 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

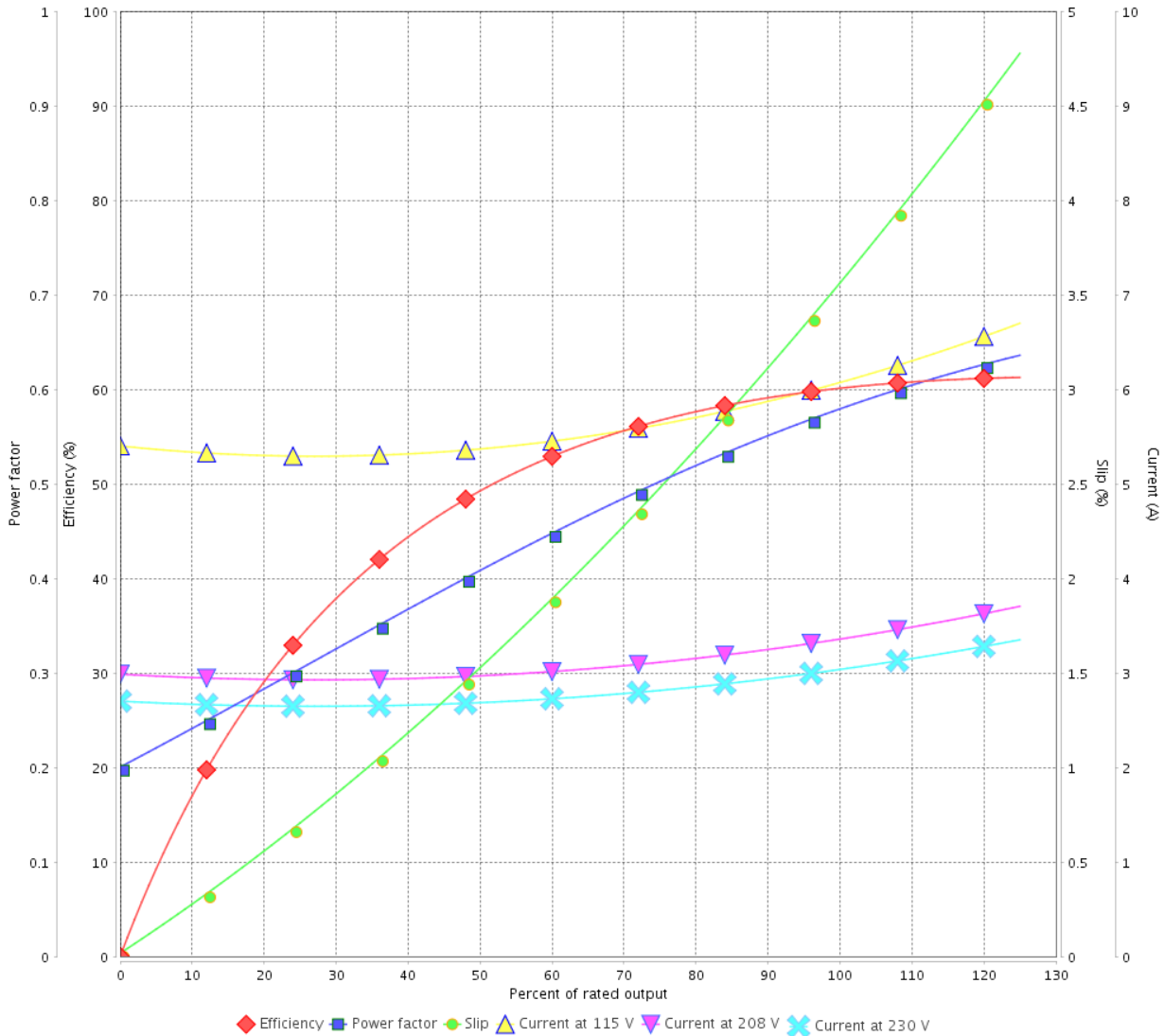


Customer :

Product line : Single-Phase

Product code : 13383185

LOAD PERFORMANCE CURVE



Performance : 115/208-230 V 60 Hz 4P

Rated current : 6.24/3.45-3.12 A
 LRC : 5.6
 Rated torque : 0.138 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 280 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0017 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

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