

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

| | | | | | |
|---|---------------------------|--------------------------|---|---------------------------|----------|
| Customer : | | | | | |
| Product line | | : Farm Duty Single-Phase | | Product code : 12311417 | |
| Frame | : D56 | | Locked rotor time | : 10s (cold) 6s (hot) | |
| Output | : 1 HP (0.75 kW) | | Temperature rise | : 80 K | |
| Poles | : 4 | | Duty cycle | : Cont.(S1) | |
| Frequency | : 60 Hz | | Ambient temperature | : -20°C to +40°C | |
| Rated voltage | : 115/230 V | | Altitude | : 1000 m.a.s.l. | |
| Rated current | : 14.0/7.00 A | | Protection degree | : IP55 | |
| L. R. Amperes | : 91.0/45.5 A | | Cooling method | : IC411 - TEFC | |
| LRC | : 6.5x(Code M) | | Mounting | : F-1 | |
| No load current | : 11.5/5.75 A | | Rotation ¹ | : Both (CW and CCW) | |
| Rated speed | : 1750 rpm | | Noise level ² | : 55.0 dB(A) | |
| Slip | : 2.78 % | | Starting method | : Direct On Line | |
| Rated torque | : 0.415 kgfm | | Approx. weight ³ | : 15.3 kg | |
| Locked rotor torque | : 320 % | | | | |
| Breakdown torque | : 270 % | | | | |
| Insulation class | : B | | | | |
| Service factor | : 1.15 | | | | |
| Moment of inertia (J) | : 0.0056 kgm ² | | | | |
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 60.0 | 67.0 | 70.3 | Max. traction : 28 kgf | |
| Power Factor | 0.45 | 0.56 | 0.65 | Max. compression : 43 kgf | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | |
| Bearing type | : | 6204 ZZ | | 6202 ZZ | |
| Sealing | : | V'Ring | | V'Ring | |
| 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

Single Phase Induction Motor - Squirrel Cage

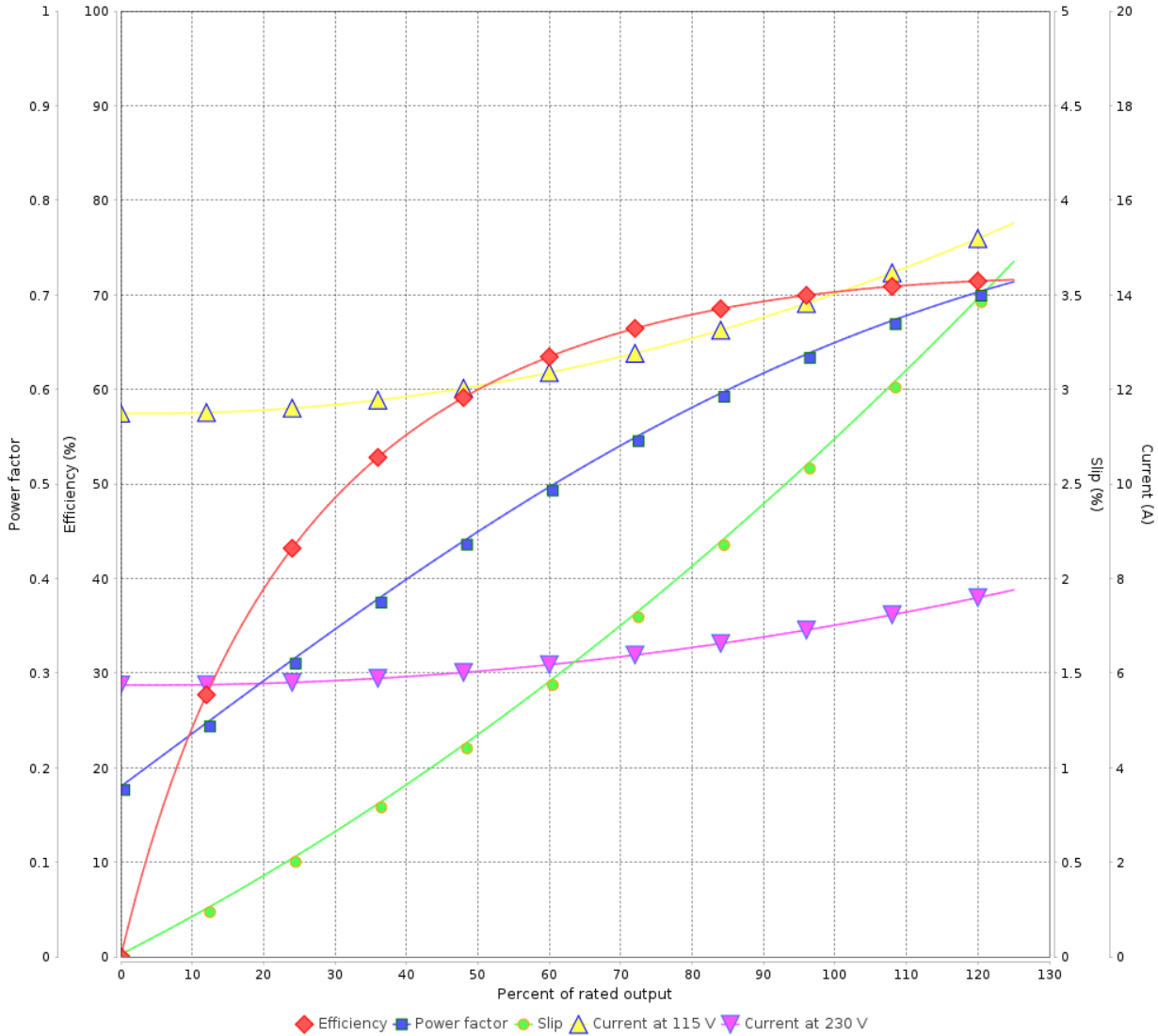


Customer :

Product line : Farm Duty Single-Phase

Product code : 12311417

LOAD PERFORMANCE CURVE



Performance : 115/230 V 60 Hz 4P

Rated current : 14.0/7.00 A
 LRC : 6.5
 Rated torque : 0.415 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 270 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0056 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : B
 Service factor : 1.15
 Temperature rise : 80 K

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