

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|--|---|-----------|---------|----------|
| Customer : | | | | |
| Product line | : Single-Phase | | | |
| Product code : | 14009345 | | | |
| Frame | : 56HC | | | |
| Insulation class | : F | | | |
| Duty cycle | : Cont.(S1) | | | |
| Ambient temperature | : -20°C to +40°C | | | |
| Altitude | : 1000 m.a.s.l. | | | |
| Protection degree | : IP55 | | | |
| Design | : L | | | |
| Cooling method | : IC411 - TEFC | | | |
| Mounting | : F-1 | | | |
| Rotation ¹ | : Both (CW and CCW) | | | |
| Starting method | : Direct On Line | | | |
| Approx. weight ³ | : 23.9 kg | | | |
| Moment of inertia (J) | : 0.0040 kgm ² | | | |
| Output [HP] | 3 | | | |
| Poles | 2 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 115/208-230 | | | |
| Rated current [A] | 25.4/14.0-12.7 | | | |
| L. R. Amperes [A] | 203/112-102 | | | |
| LRC [A] | 8.0x(Code J) | | | |
| No load current [A] | 8.00/3.45-4.00 | | | |
| Rated speed [RPM] | 3490 | | | |
| Slip [%] | 3.06 | | | |
| Rated torque [kgfm] | 0.624 | | | |
| Locked rotor torque [%] | 210 | | | |
| Breakdown torque [%] | 250 | | | |
| Service factor | | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 10s (cold) 6s (hot) | | | |
| Noise level ² | 68.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 76.0 | | |
| | 75% | 79.0 | | |
| | 100% | 80.0 | | |
| Power Factor | 25% | | | |
| | 50% | 0.86 | | |
| | 75% | 0.92 | | |
| | 100% | 0.94 | | |
| Bearing type | : <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ | | | |
| Sealing | : V'Ring V'Ring | | | |
| Lubrication interval | : - - | | | |
| Lubricant amount | : - - | | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Foundation loads | | | | |
| Max. traction | : 37 kgf | | | |
| Max. compression | : 61 kgf | | | |
| 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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| Date | 11/05/2022 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

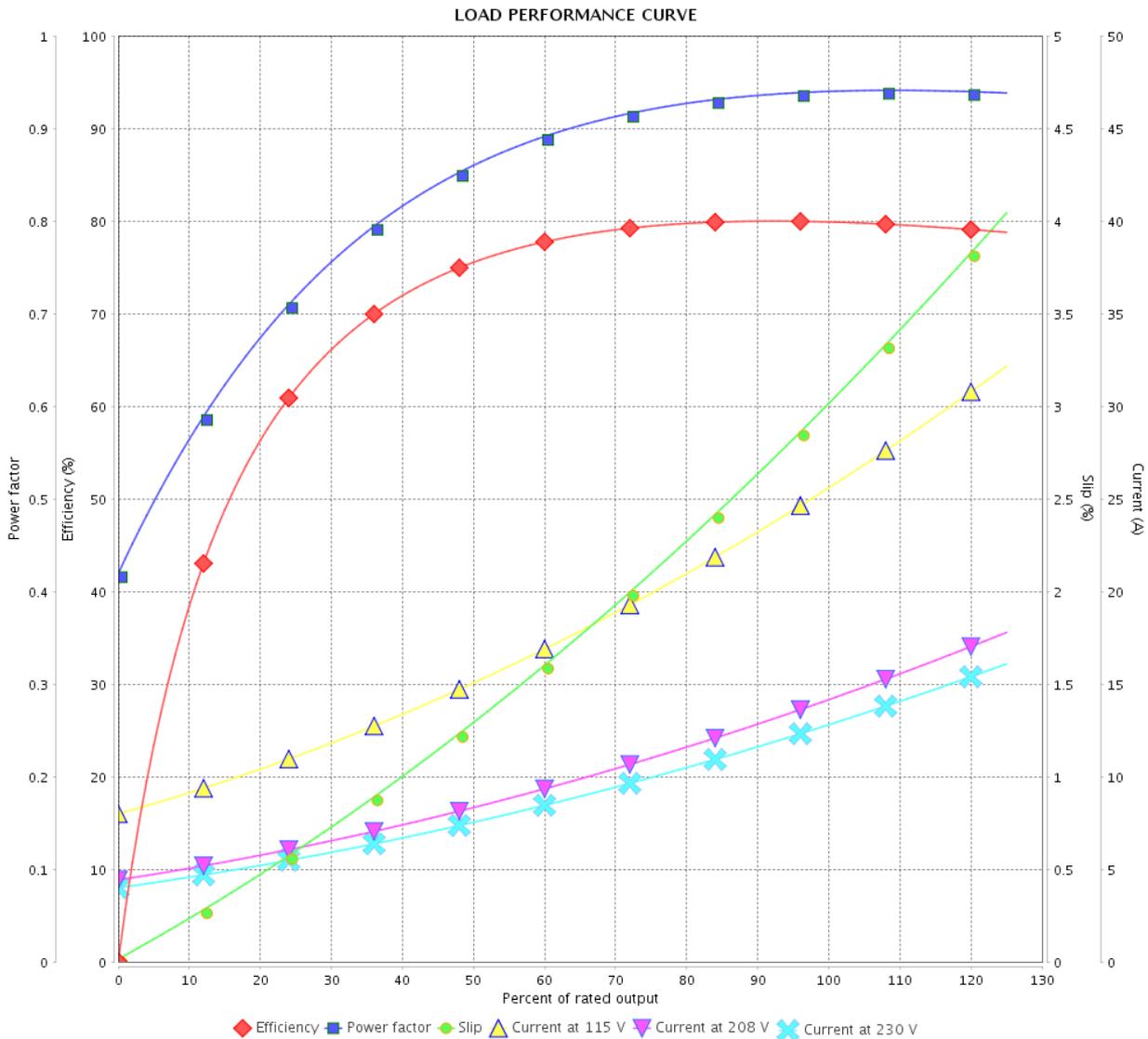
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Single-Phase

Product code : 14009345



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

Rated current : 25.4/14.0-12.7 A
 LRC : 8.0
 Rated torque : 0.624 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 3490 rpm

Moment of inertia (J) : 0.0040 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

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