

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|--|---|-----------|---------|----------|
| Customer : | | | | |
| Product line | : Single-Phase | | | |
| Product code : | 13386541 | | | |
| Frame | : W56C | | | |
| Insulation class | : F | | | |
| Duty cycle | : Cont.(S1) | | | |
| Ambient temperature | : -20°C to +40°C | | | |
| Altitude | : 1000 m.a.s.l. | | | |
| Protection degree | : IP55 | | | |
| Design | : N | | | |
| Cooling method | : IC411 - TEFC | | | |
| Mounting | : F-1 | | | |
| Rotation ¹ | : Both (CW and CCW) | | | |
| Starting method | : Direct On Line | | | |
| Approx. weight ³ | : 9.7 kg | | | |
| Moment of inertia (J) | : 0.0020 kgm ² | | | |
| Output [HP] | 0.5 | | | |
| Poles | 4 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 115/208-230 | | | |
| Rated current [A] | 8.00/4.42-4.00 | | | |
| L. R. Amperes [A] | 45.6/25.2-22.8 | | | |
| LRC [A] | 5.7x(Code M) | | | |
| No load current [A] | 6.60/2.85-3.30 | | | |
| Rated speed [RPM] | 1730 | | | |
| Slip [%] | 3.89 | | | |
| Rated torque [kgfm] | 0.210 | | | |
| Locked rotor torque [%] | 320 | | | |
| Breakdown torque [%] | 270 | | | |
| Service factor | | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 18s (cold) 10s (hot) | | | |
| Noise level ² | 52.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 52.0 | | |
| | 75% | 59.0 | | |
| | 100% | 64.0 | | |
| Power Factor | 25% | | | |
| | 50% | 0.44 | | |
| | 75% | 0.54 | | |
| | 100% | 0.63 | | |
| Bearing type | : <u>Drive end</u> 6203 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 : 13 kgf | | | |
| | Max. compression : 22 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 | | | | |
| Checked by | | | Page | Revision |
| Date | 13/05/2022 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

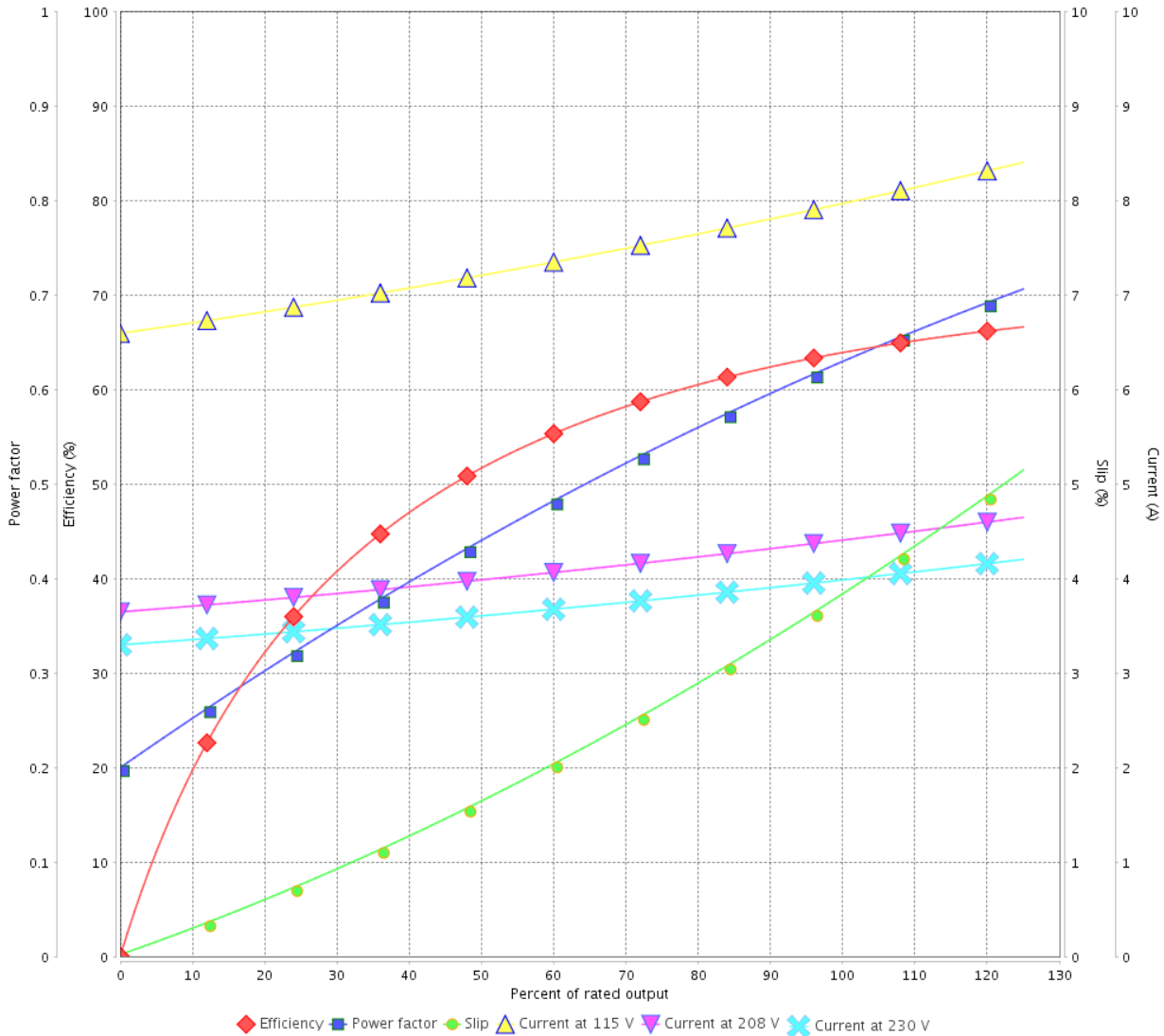


Customer :

Product line : Single-Phase

Product code : 13386541

LOAD PERFORMANCE CURVE



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

Rated current : 8.00/4.42-4.00 A
 LRC : 5.7
 Rated torque : 0.210 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 270 %
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0020 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 2 / 2 | Revision |
| Checked by | | | | |
| Date | 13/05/2022 | | | |