

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10687911

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : B56CEX | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 0.5 HP (0.37 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 1.80-1.63/0.812 A | Protection degree | : IP44 |
| L. R. Amperes | : 12.2-11.0/5.52 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.8x(Code K) | Mounting | : F-1 |
| No load current | : 1.38-1.25/0.625 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1755 rpm | Noise level ² | : 50.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 0.207 kgfm | Approx. weight ³ | : 15.6 kg |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 330 % | | |
| Insulation class | : B | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0034 kgm ² | | |

| | | | | | |
|----------------|------|------|------|------------------|----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 70.0 | 75.5 | 77.5 | Max. traction | : 14 kgf |
| Power Factor | 0.52 | 0.64 | 0.73 | Max. compression | : 29 kgf |

| | Drive end | Non drive end |
|----------------------|------------------------|------------------------|
| Bearing type | : 6203 ZZ | : 6203 ZZ |
| Sealing | : Without Bearing Seal | : Without Bearing Seal |
| Lubrication interval | : - | : - |
| Lubricant amount | : - | : - |
| Lubricant type | : Mobil Polyrex EM | |

Notes
USABLE @208V SF 1.00

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 |
|--------------|-----------------|-----------|---------|------|
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| Performed by | | | | |
| Checked by | | | | |
| Date | 26/10/2024 | | | |

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Revision

Customer :

Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 130 °C |

| | | | | | |
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| Rev. | Changes Summary | | Performed | Checked | Date |
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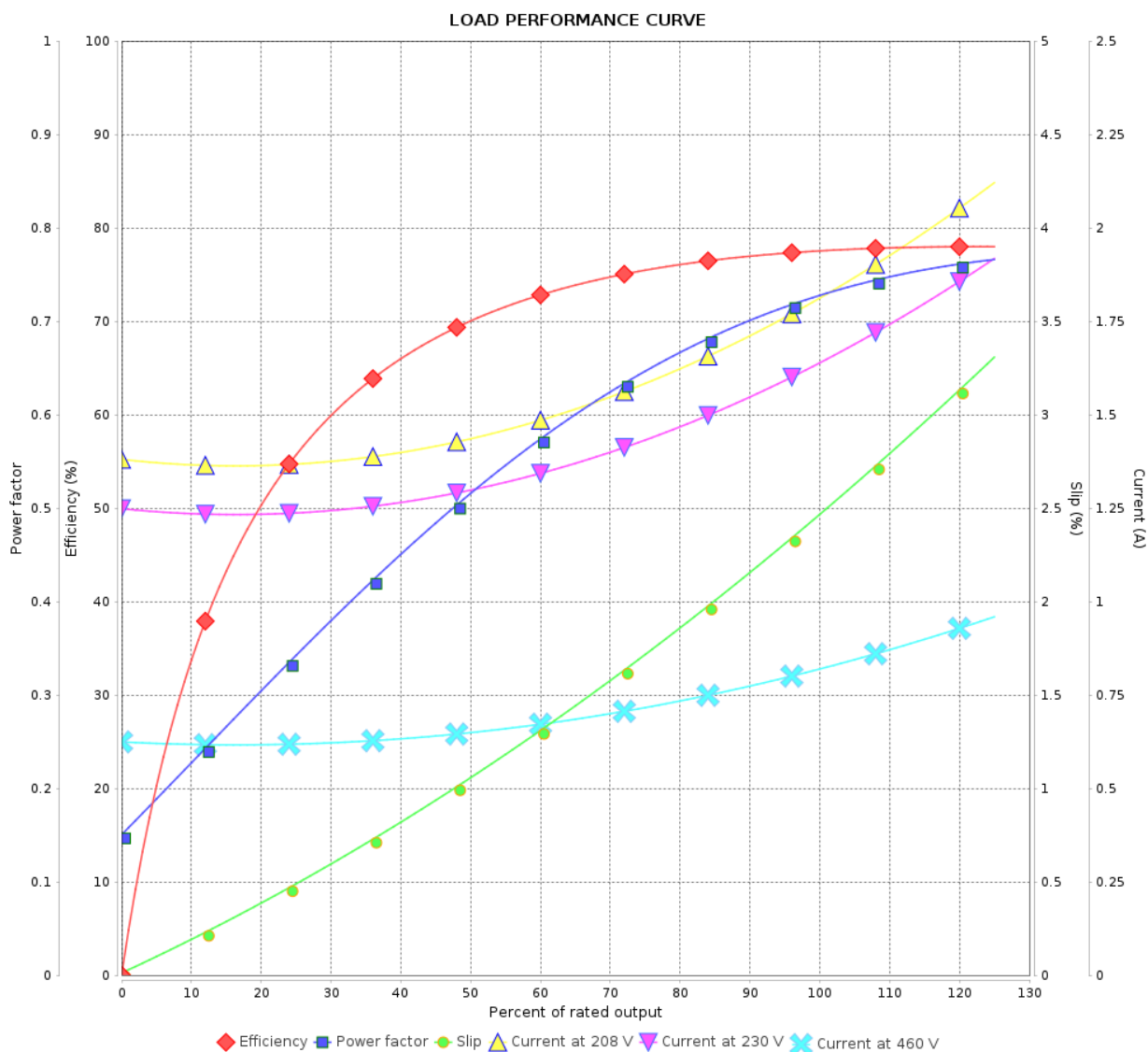
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10687911



Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.80-1.63/0.812 A
LRC : 6.8
Rated torque : 0.207 kgfm
Locked rotor torque : 220 %
Breakdown torque : 330 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0034 kgm²
Duty cycle : Cont.(S1)
Insulation class : B
Service factor :
Temperature rise : 80 K

| Rev. | Changes Summary | | Performed | Checked | Date |
|--------------|-----------------|-----------------------|-----------|---------|------|
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| Checked by | | | | | |
| Date | 26/10/2024 | | | | |

