

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10674709

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : B56EX | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 0.75 HP (0.550 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 | : 2.57-2.32/1.16 A | Protection degree | : IP44 |
| L. R. Amperes | : 14.6-13.2/6.61 A | Cooling method | : IC411 - TEFC |
| LRC | : 5.7x(Code H) | Mounting | : F-1 |
| No load current | : 1.55-1.40/0.700 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1730 rpm | Noise level ² | : 50.0 dB(A) |
| Slip | : 3.89 % | Starting method | : Direct On Line |
| Rated torque | : 0.315 kgfm | Approx. weight ³ | : 16.7 kg |
| Locked rotor torque | : 240 % | | |
| Breakdown torque | : 280 % | | |
| Insulation class | : B | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0041 kgm ² | | |

| | | | | | |
|----------------|------|------|------|------------------|----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 77.0 | 80.0 | 81.5 | Max. traction | : 20 kgf |
| Power Factor | 0.53 | 0.66 | 0.74 | Max. compression | : 36 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 |
|--------------|-----------------|---------------------------|---------|------|
| | | | | |
| Performed by | | Page 1 / 3 Revision | | |
| Checked by | | | | |
| Date | 26/10/2024 | | | |

Customer :

Thermal protection

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

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

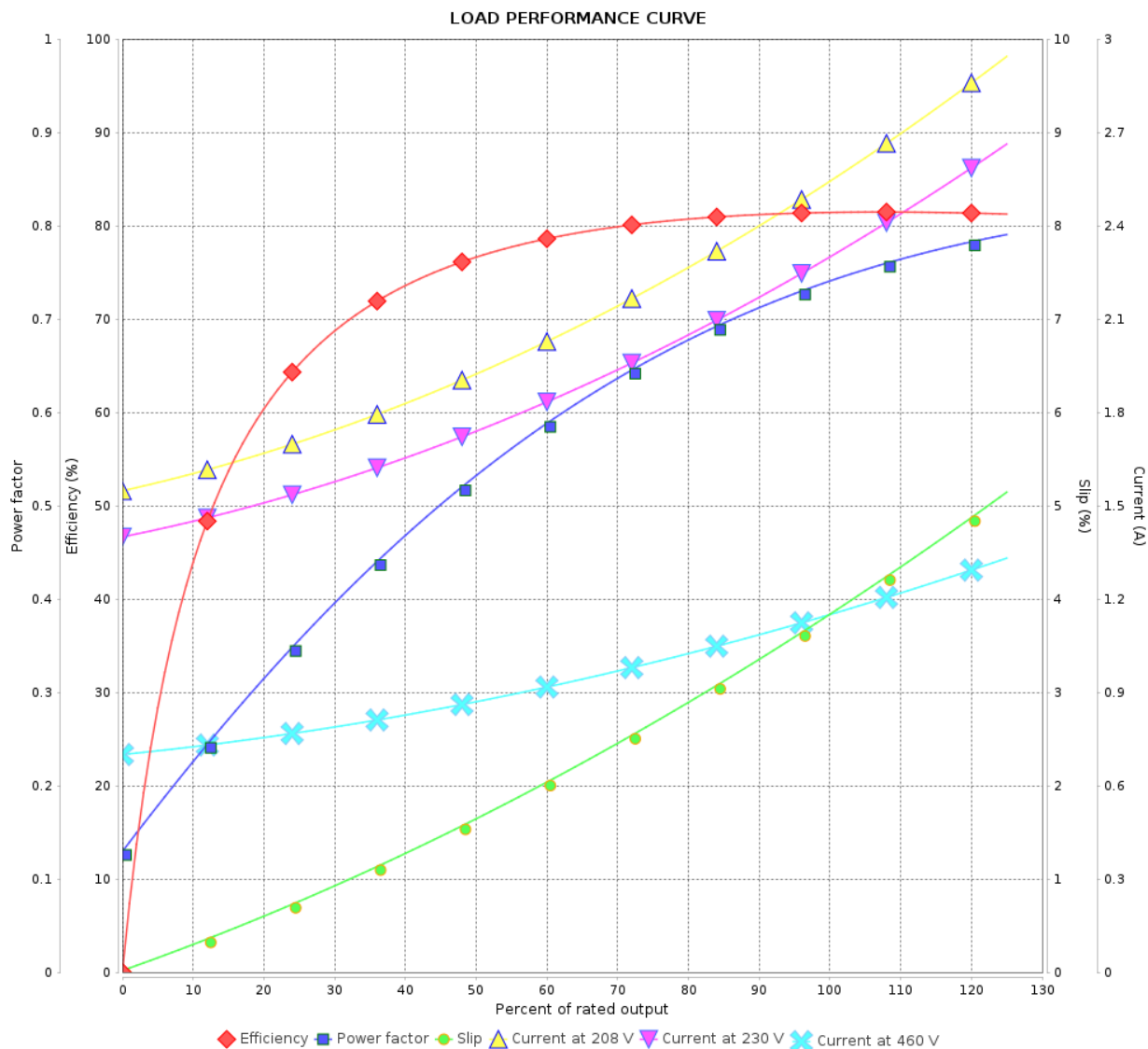
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10674709



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

Rated current : 2.57-2.32/1.16 A
LRC : 5.7
Rated torque : 0.315 kgfm
Locked rotor torque : 240 %
Breakdown torque : 280 %
Rated speed : 1730 rpm

Moment of inertia (J) : 0.0041 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 | | | | |

