

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14370859

| | | | |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame | : 80M/MS | Locked rotor time | : 12s (cold) 7s (hot) |
| Output | : 5 HP (3.7 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : S6 |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 14.7-13.3/6.65 A | Protection degree | : IP54 |
| L. R. Amperes | : 118-106/53.2 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.0 | Mounting | : B3R(D) |
| No load current | : 6.35-5.74/2.87 A | Rotation ¹ | : CCW |
| Rated speed | : 3470 rpm | Noise level ² | : 62.0 dB(A) |
| Slip | : 3.61 % | Starting method | : Direct On Line |
| Rated torque | : 1.05 kgfm | Approx. weight ³ | : 45.9 kg |
| Locked rotor torque | : 340 % | | |
| Breakdown torque | : 409 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0041 kgm ² | | |
| Design | : N | | |

| | | | | | |
|----------------|------|------|------|------------------|-----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 82.0 | 84.5 | 85.0 | Max. traction | : 67 kgf |
| Power Factor | 0.66 | 0.77 | 0.82 | Max. compression | : 113 kgf |

| | Drive end | Non drive end |
|----------------------|------------------------|------------------------|
| Bearing type | : 6307 ZZ | : 6207 ZZ |
| Sealing | : Without Bearing Seal | : Without Bearing Seal |
| Lubrication interval | : - | : - |
| Lubricant amount | : - | : - |
| Lubricant type | : Mobil Polyrex EM | |

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 | | | | |
| Date | 27/10/2024 | | Page 1 / 2 | Revision |

LOAD PERFORMANCE CURVE

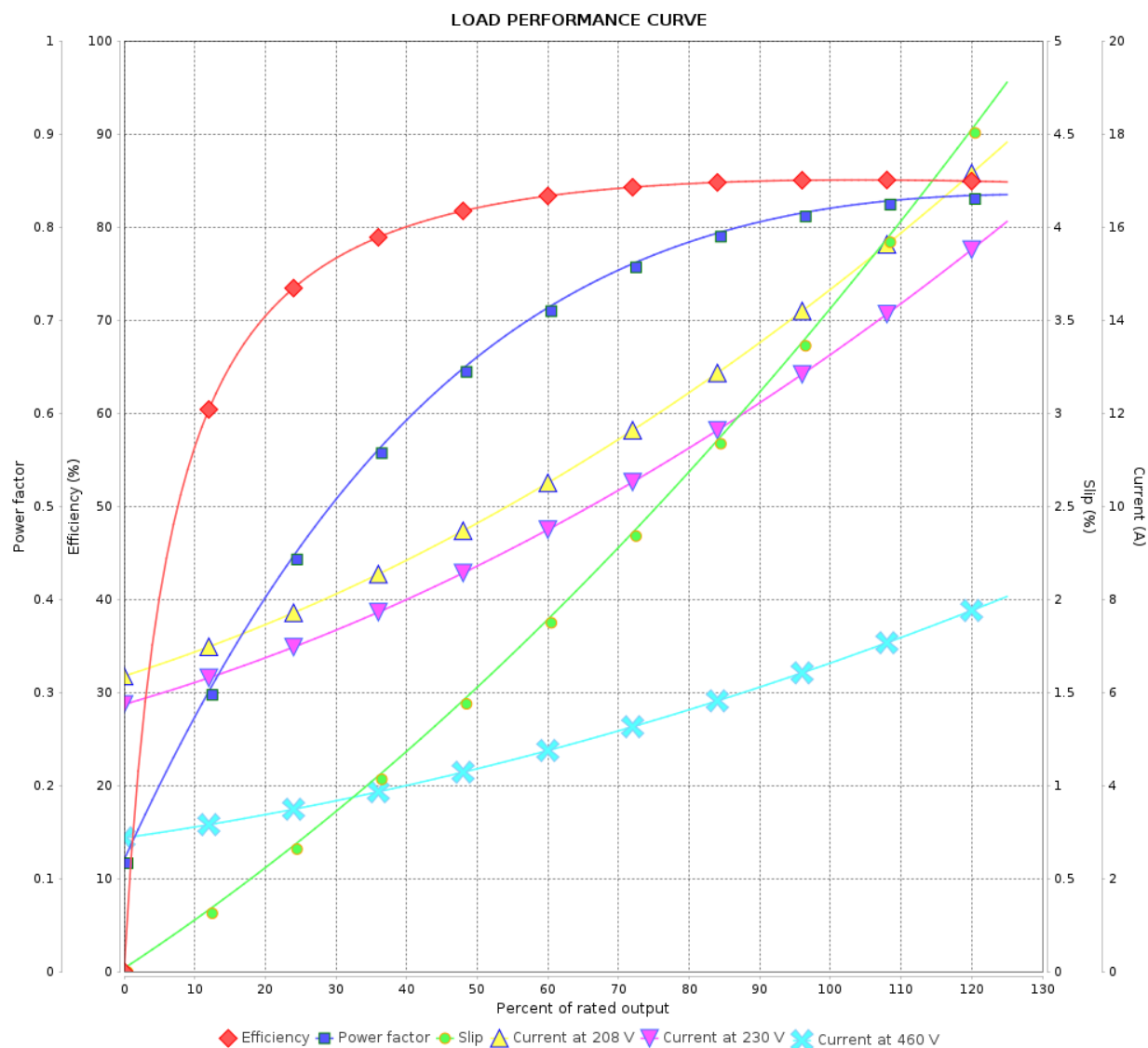
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 14370859



Performance : 208-230/460 V 60 Hz 2P

Rated current : 14.7-13.3/6.65 A
LRC : 8.0
Rated torque : 1.05 kgfm
Locked rotor torque : 340 %
Breakdown torque : 409 %
Rated speed : 3470 rpm

Moment of inertia (J) : 0.0041 kgm²
Duty cycle : S6
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

| Rev. | Changes Summary | | Performed | Checked | Date |
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