

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 14558767

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : L100L | Locked rotor time | : 32s (cold) 18s (hot) |
| Output | : 4 HP (3 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S1 |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 10.7/5.33 A | Protection degree | : IP55 |
| L. R. Amperes | : 91.7/45.8 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.6 | Mounting | : B3L(E) |
| No load current | : 6.40/3.20 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1740 rpm | Noise level ² | : 54.0 dB(A) |
| Slip | : 3.33 % | Starting method | : Direct On Line |
| Rated torque | : 1.67 kgfm | Approx. weight ³ | : 35.6 kg |
| Locked rotor torque | : 459 % | | |
| Breakdown torque | : 480 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0120 kgm ² | | |
| Design | : N | | |

| | | | | | |
|----------------|------|------|------|------------------|-----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 84.0 | 86.5 | 89.5 | Max. traction | : 182 kgf |
| Power Factor | 0.59 | 0.71 | 0.79 | Max. compression | : 218 kgf |

| | <u>Drive end</u> | <u>Non drive end</u> |
|----------------------|--------------------|----------------------|
| Bearing type | : 6206 ZZ | : 6206 ZZ |
| Sealing | : V'Ring | : V'Ring |
| 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 |
|--------------|-----------------|-----------|---------|----------|
| | | | | |
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LOAD PERFORMANCE CURVE

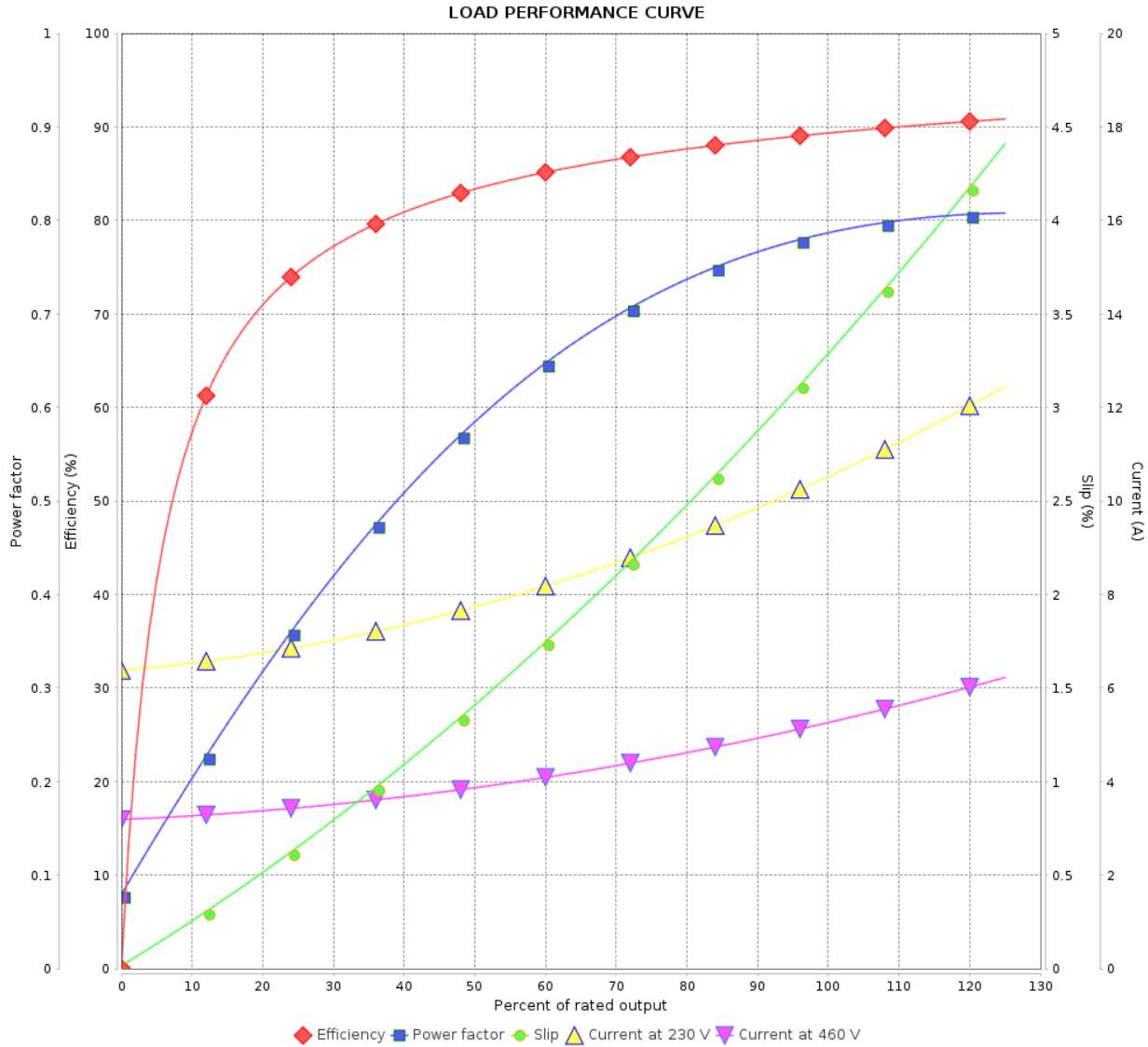
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Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 14558767



Performance : 230/460 V 60 Hz 4P

Rated current : 10.7/5.33 A
 LRC : 8.6
 Rated torque : 1.67 kgfm
 Locked rotor torque : 459 %
 Breakdown torque : 480 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0120 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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