

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 19222762

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 143/5TC | Locked rotor time | : 18s (cold) 10s (hot) |
| Output | : 3 HP (2.2 kW) | Temperature rise | : 80 K |
| Frequency | : 60 Hz | Duty cycle | : Cont.(S1) |
| Rated voltage | : 230/460 V | Ambient temperature | : -20°C to +40°C |
| Poles | : 2 | Altitude | : 1000 m.a.s.l. |
| Rated current | : 7.02/3.51 A | Protection degree | : IP55 |
| | : 9.5x(Code K) | Cooling method | : IC411 - TEFC |
| Rated speed | : 3500 rpm | Mounting | : F-1 |
| Rated torque | : 0.622 kgfm | Rotation ¹ | : Both (CW and CCW) |
| Insulation class | : F | Noise level ² | : 68.0 dB(A) |
| Service factor | : 1.15 | Starting method | : Direct On Line |
| Moment of inertia (J) | : 0.0070 kgm ² | Approx. weight ³ | : 22.9 kg |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 84.0 | 86.5 | 86.5 | Max. traction | : 61 kgf |
| Power Factor | 0.78 | 0.87 | 0.91 | Max. compression | : 84 kgf |

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 14.5 | 10.8 | 9.9 | 8.0 | 4.4 | 3.0 | 1.7 |

| | Drive end | Non drive end |
|----------------------|--------------------|------------------------|
| Bearing type | : 6205 ZZ | : 6203 ZZ |
| Sealing | : V'Ring | : Without Bearing Seal |
| Lubrication interval | : - | : - |
| Lubricant amount | : - | : - |
| Lubricant type | : Mobil Polyrex EM | |

Notes

USABLE @208V 7.76A SF 1.00 SFA 7.76A

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 | | | | |
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LOAD PERFORMANCE CURVE

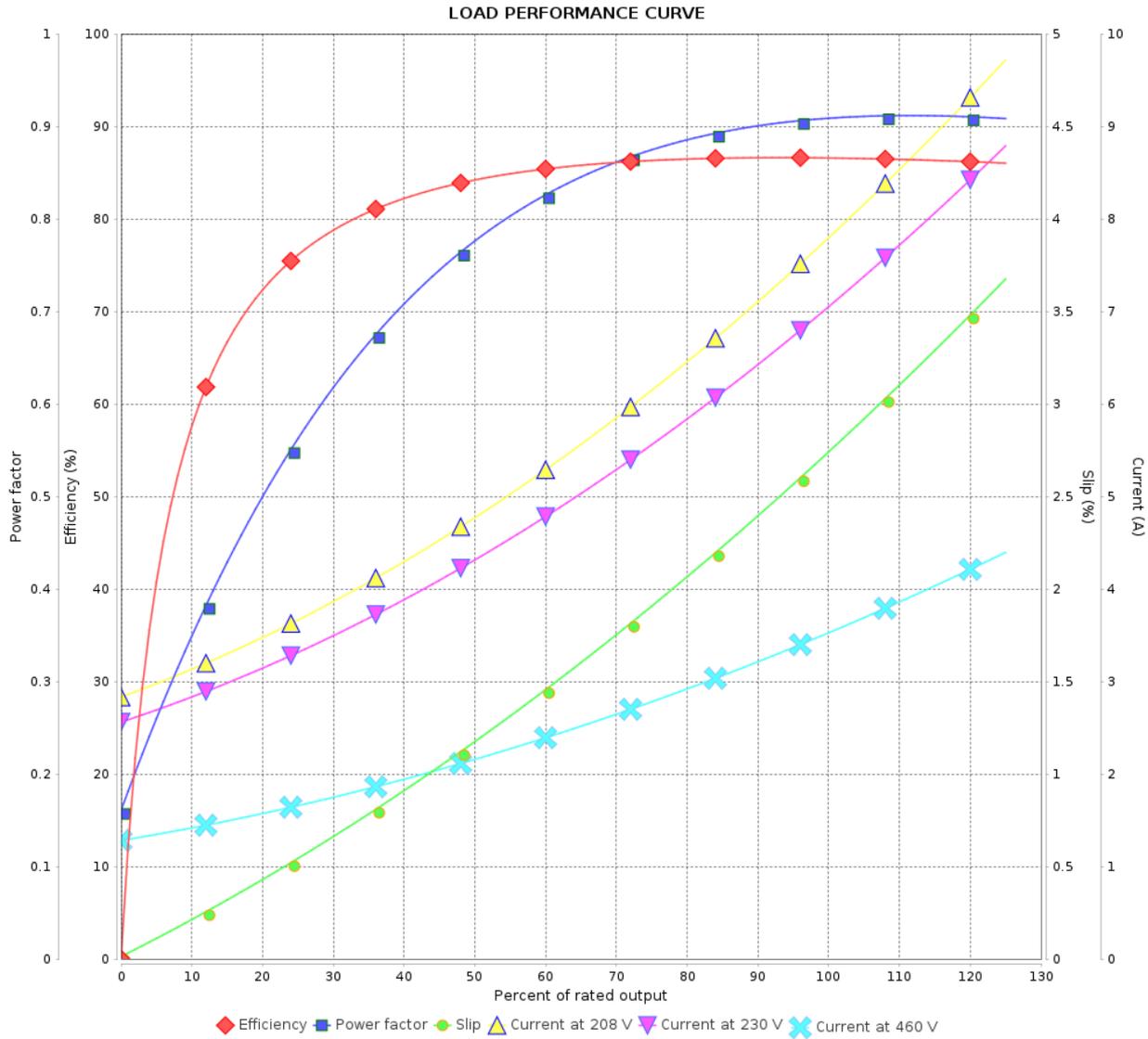
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