

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12651247

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 213/5TC | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 10 HP (7.5 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 | : 4 | Altitude | : 1000 m.a.s.l. |
| Rated current | : 24.2/12.1 A | Protection degree | : IP55 |
| | : 7.3x(Code H) | Cooling method | : IC411 - TEFC |
| Rated speed | : 1770 rpm | Mounting | : F-1 |
| Rated torque | : 4.10 kgfm | Rotation ¹ | : Both (CW and CCW) |
| Insulation class | : F | Noise level ² | : 60.0 dB(A) |
| Service factor | : 1.15 | Starting method | : Direct On Line |
| Moment of inertia (J) | : 0.0451 kgm ² | Approx. weight ³ | : 73.6 kg |
| Design | : B | | |

| | | | | | | |
|----------------|-------|------|------|------|------------------|---------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 0.000 | 90.2 | 91.0 | 91.7 | Max. traction | : 0 kgf |
| Power Factor | 0.00 | 0.68 | 0.80 | 0.85 | Max. compression | : 0 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 8.8 | 7.7 | 7.3 | 4.2 | 3.0 | 2.0 | 1.5 |

| | Drive end | Non drive end |
|----------------------|--------------------|----------------------|
| Bearing type | : 6208 ZZ | 6206 ZZ |
| Sealing | : V'Ring | Without Bearing Seal |
| Lubrication interval | : - | - |
| Lubricant amount | : - | - |
| Lubricant type | : Mobil Polyrex EM | |

Notes

USABLE @208V 27.0A SF 1.00 SFA 27.0A

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 | | | Page | Revision |
| Date | 12/05/2026 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

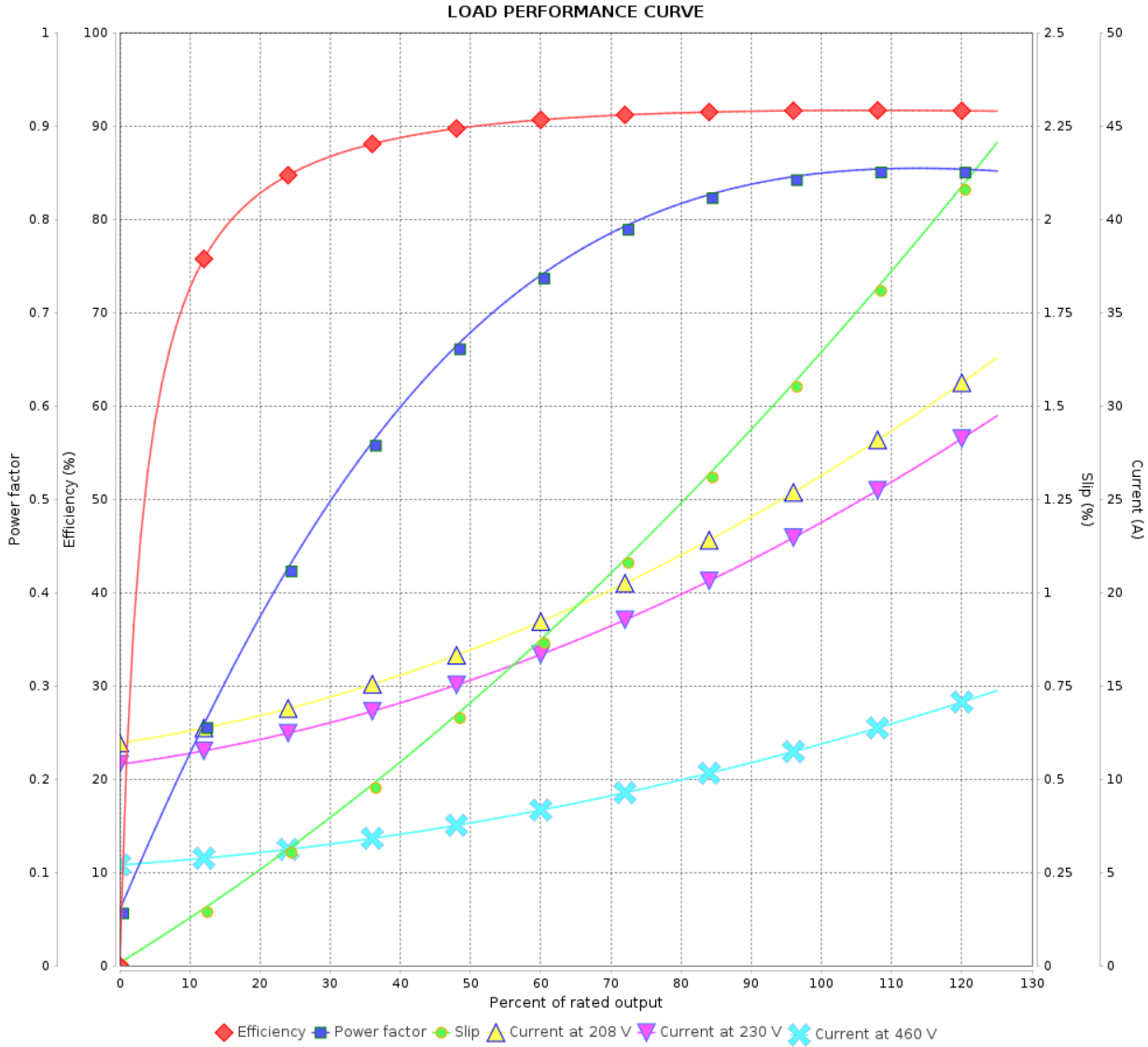
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