

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14686001

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 132S | Locked rotor time | : 73s (cold) 41s (hot) |
| Output | : 5.5 HP (4 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : 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 | : 15.1-13.7/6.84 A | Protection degree | : IP55 |
| L. R. Amperes | : 157-142/71.1 A | Cooling method | : IC411 - TEFC |
| LRC | : 10.4 | Mounting | : B35L(E) |
| No load current | : 5.56-6.44/3.22 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1770 rpm | Noise level ² | : 56.0 dB(A) |
| Slip | : 1.67 % | Starting method | : Direct On Line |
| Rated torque | : 2.26 kgfm | Approx. weight ³ | : 69.0 kg |
| Locked rotor torque | : 260 % | | |
| Breakdown torque | : 409 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0528 kgm ² | | |
| Design | : N | | |

| | | | | | | |
|----------------|-------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 0.000 | 86.4 | 88.7 | 89.5 | Max. traction | : 136 kgf |
| Power Factor | 0.00 | 0.64 | 0.76 | 0.82 | Max. compression | : 205 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 12.9 | 11.2 | 10.5 | 6.3 | 4.4 | 3.0 | 2.2 |

| | Drive end | Non drive end |
|----------------------|--------------------|---------------|
| Bearing type | : 6308 ZZ | : 6207 ZZ |
| Sealing | : V'Ring | : V'Ring |
| Lubrication interval | : 0 h | : 0 h |
| Lubricant amount | : 0 g | : 0 g |
| 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 | | | Page | Revision |
| Date | 14/01/2024 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

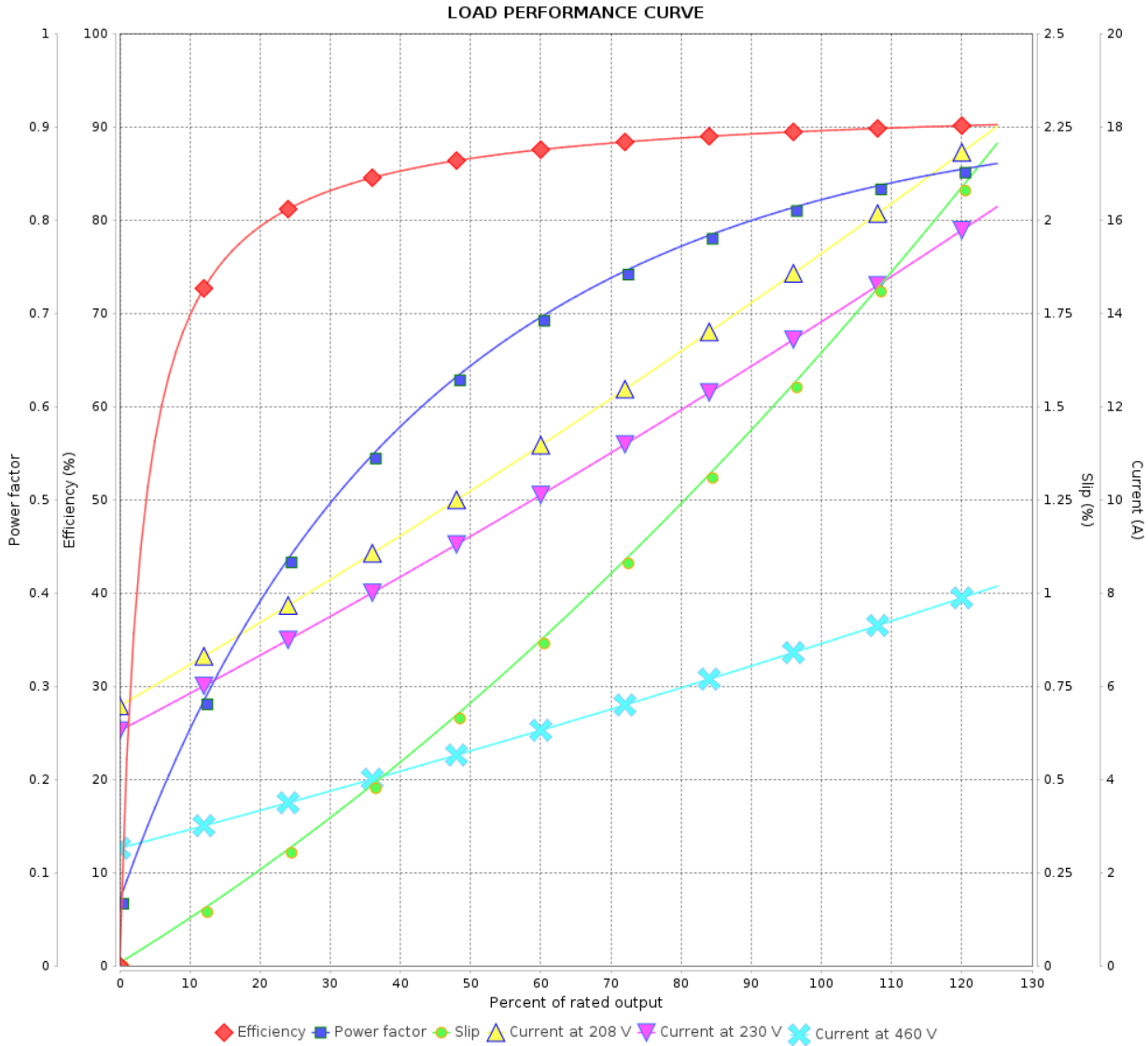
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 14686001



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

Rated current : 15.1-13.7/6.84 A
 LRC : 10.4
 Rated torque : 2.26 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 409 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.0528 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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