

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12036435

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 160L | Locked rotor time | : 21s (cold) 12s (hot) |
| Output | : 25 HP (18.5 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S1 |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 24.5 A | Protection degree | : IPW55 |
| L. R. Amperes | : 179 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.3 | Mounting | : B3R(D) |
| No load current | : 11.4 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1775 rpm | Noise level ² | : 64.0 dB(A) |
| Slip | : 1.39 % | Starting method | : Direct On Line |
| Rated torque | : 10.2 kgfm | Approx. weight ³ | : 155 kg |
| Locked rotor torque | : 280 % | | |
| Breakdown torque | : 310 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.1154 kgm ² | | |
| Design | : N | | |

| | | | | | | |
|----------------|-------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 0.000 | 92.4 | 93.6 | 93.6 | Max. traction | : 421 kgf |
| Power Factor | 0.00 | 0.64 | 0.75 | 0.81 | Max. compression | : 576 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) |
| 7.4 | 5.9 | 5.3 | 3.9 | 2.5 | 1.7 | 1.1 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6309 C3 | 6209 C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 13 g | 9 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 | | | | |
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LOAD PERFORMANCE CURVE

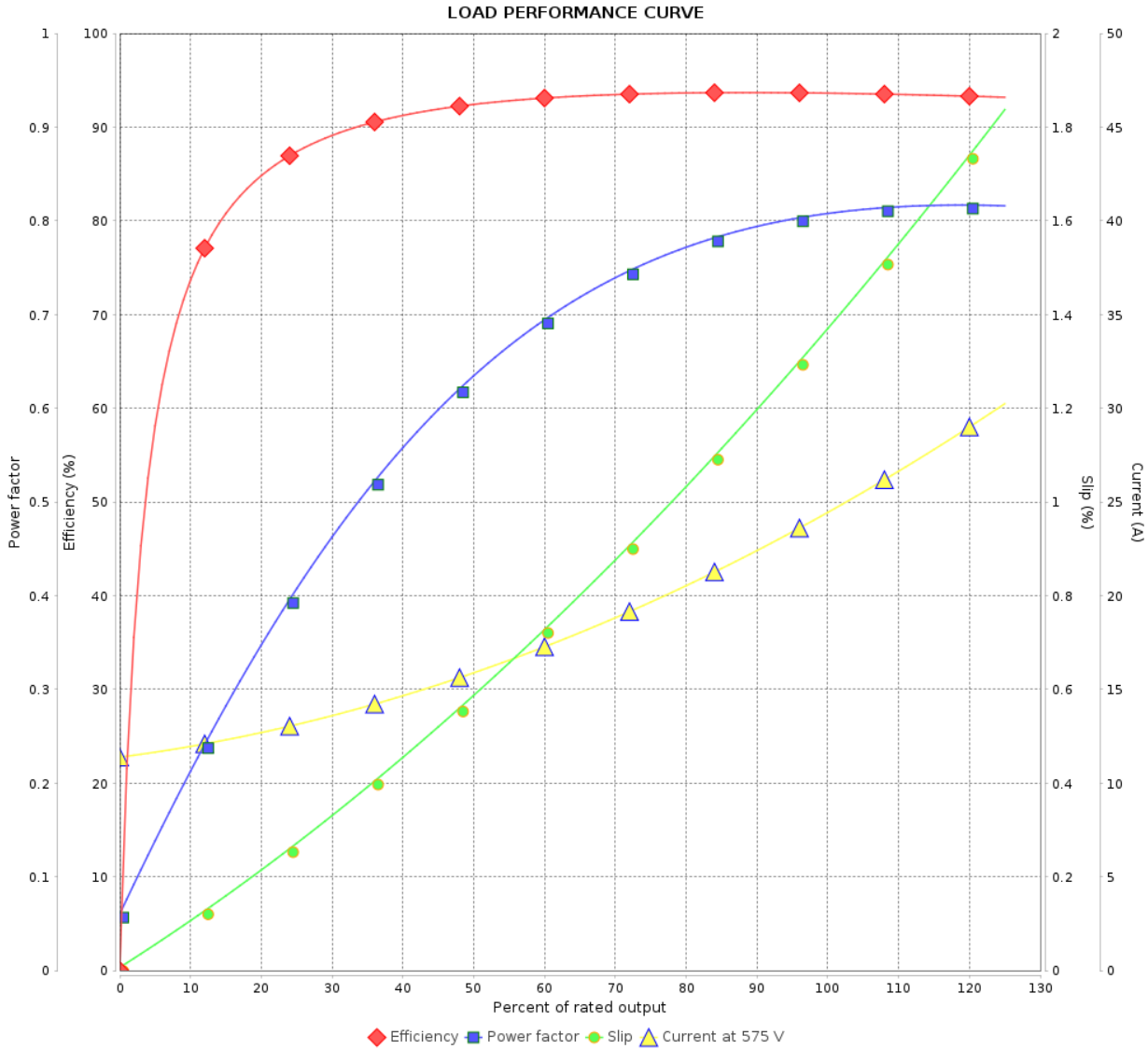
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Product code : 12036435



Performance : 575 V 60 Hz 4P

Rated current : 24.5 A
 LRC : 7.3
 Rated torque : 10.2 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 310 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.1154 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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