

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12082753

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 90L | Locked rotor time | : 25s (cold) 14s (hot) |
| Output | : 2 HP (1.5 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 | : 2.26 A | Protection degree | : IP55 |
| L. R. Amperes | : 18.8 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.3 | Mounting | : B35L(E) |
| No load current | : 1.24 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1755 rpm | Noise level ² | : 49.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 0.827 kgfm | Approx. weight ³ | : 26.3 kg |
| Locked rotor torque | : 300 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0066 kgm ² | | |
| Design | : N | | |

| | | | | | |
|----------------|------|------|------|------------------|----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 82.5 | 85.5 | 86.5 | Max. traction | : 69 kgf |
| Power Factor | 0.55 | 0.68 | 0.77 | Max. compression | : 95 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 14.6 | 12.0 | 12.1 | 8.5 | 5.9 | 4.7 | 3.4 |

| | Drive end | Non drive end |
|----------------------|------------------|---------------|
| Bearing type | : 6205 ZZ | 6204 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 |
|--------------|-----------------|-----------|---------|------|
| | | | | |
| Performed by | | | | |
| Checked by | | | | |
| Date | 24/10/2024 | | | |

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Revision

LOAD PERFORMANCE CURVE

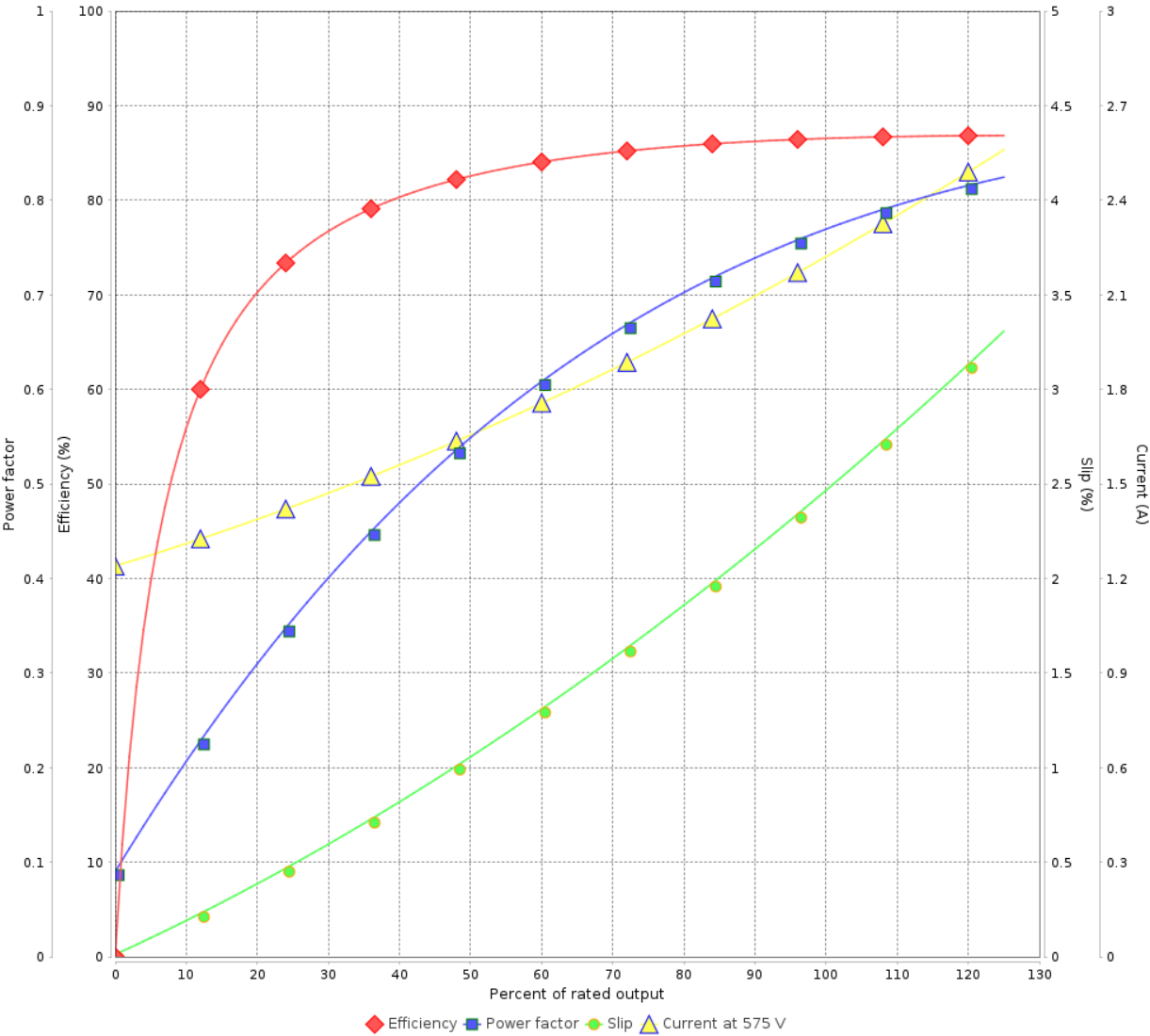
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| | | | |
|------------------------------|--------------|-----------------------|---------------|
| Performance : 575 V 60 Hz 4P | | | |
| Rated current | : 2.26 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 8.3 | Duty cycle | : S1 |
| Rated torque | : 0.827 kgfm | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : 1.25 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1755 rpm | Design | : N |

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