

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
Product code : 14941562

| | | | |
|-----------------------|-------------------------|-----------------------------|------------------------|
| Frame | : 444/5TC | Locked rotor time | : 39s (cold) 22s (hot) |
| Output | : 150 HP (110 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 136 A | Protection degree | : IP23 |
| L. R. Amperes | : 884 A | Cooling method | : IC01 - ODP |
| LRC | : 6.5x(Code G) | Mounting | : F-1 |
| No load current | : 46.4 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1784 rpm | Noise level ² | : 78.0 dB(A) |
| Slip | : 0.89 % | Starting method | : Direct On Line |
| Rated torque | : 61.0 kgfm | Approx. weight ³ | : 623 kg |
| Locked rotor torque | : 200 % | | |
| Breakdown torque | : 240 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.77 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|------------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 95.4 | 95.8 | 95.8 | Max. traction | : 969 kgf |
| Power Factor | 0.74 | 0.82 | 0.85 | Max. compression | : 1592 kgf |

| | <u>Drive end</u> | <u>Non drive end</u> |
|----------------------|------------------------|----------------------|
| Bearing type | : 6319 C3 | 6212 Z C3 |
| Sealing | : Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : 20000 h | 20000 h |
| Lubricant amount | : 45 g | 13 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 |
|--------------|-----------------|-----------|---------|----------|
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LOAD PERFORMANCE CURVE

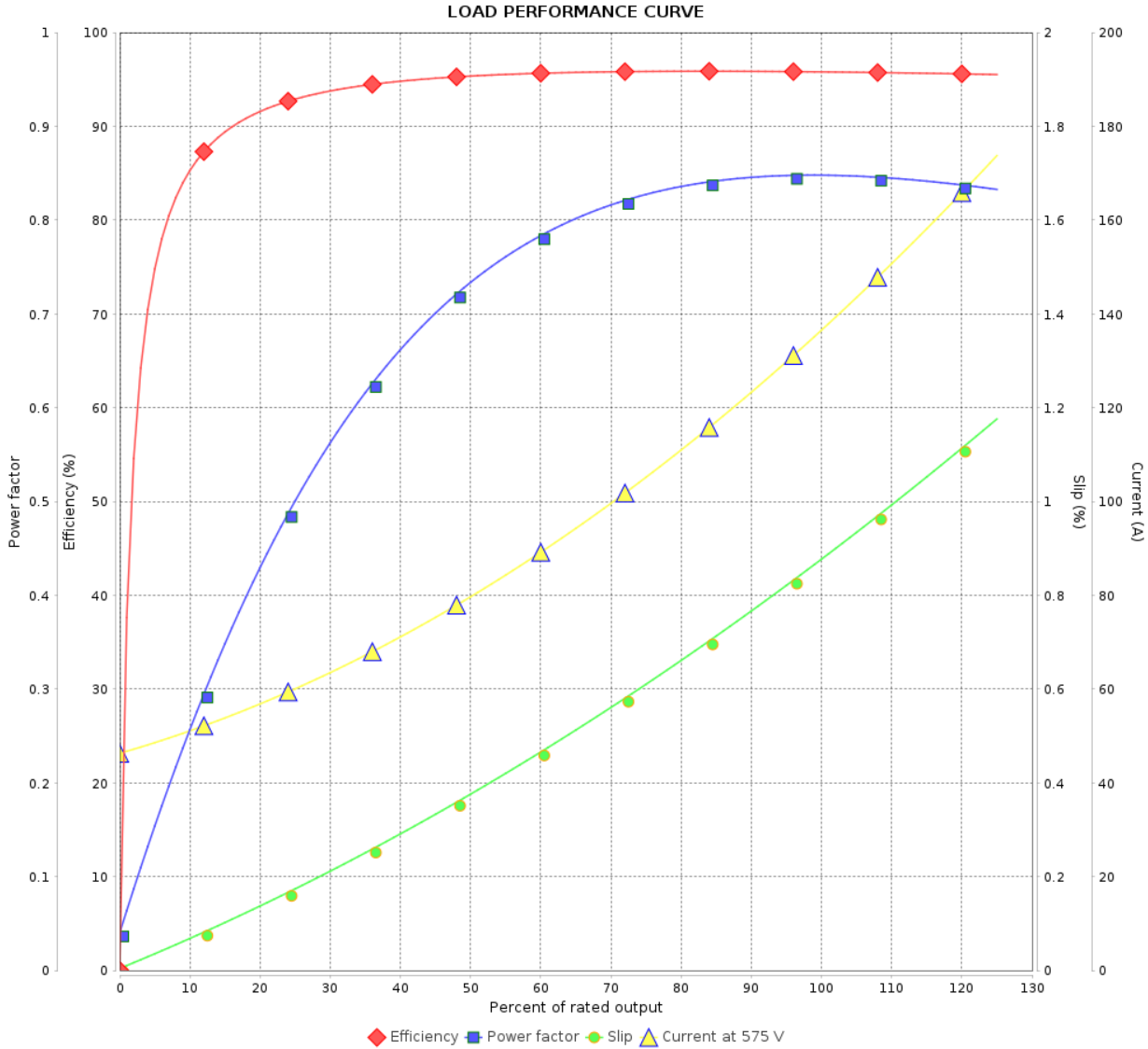
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14941562



Performance : 575 V 60 Hz 4P

Rated current : 136 A
 LRC : 6.5
 Rated torque : 61.0 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1784 rpm

Moment of inertia (J) : 1.77 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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