

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14448253

| | | | |
|-----------------------|-------------------------|-----------------------------|------------------------|
| Frame | : 444/5T | Locked rotor time | : 25s (cold) 14s (hot) |
| Output | : 200 HP (150 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 | : 187 A | Protection degree | : IP23 |
| L. R. Amperes | : 1236 A | Cooling method | : IC01 - ODP |
| LRC | : 6.6x(Code G) | Mounting | : F-1 |
| No load current | : 69.2 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1783 rpm | Noise level ² | : 78.0 dB(A) |
| Slip | : 0.94 % | Starting method | : Direct On Line |
| Rated torque | : 81.4 kgfm | Approx. weight ³ | : 629 kg |
| Locked rotor torque | : 210 % | | |
| Breakdown torque | : 250 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 1.96 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|------------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 95.4 | 95.8 | 95.8 | Max. traction | : 1465 kgf |
| Power Factor | 0.72 | 0.80 | 0.84 | Max. compression | : 2095 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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| Date | | 15/01/2024 | | |

LOAD PERFORMANCE CURVE

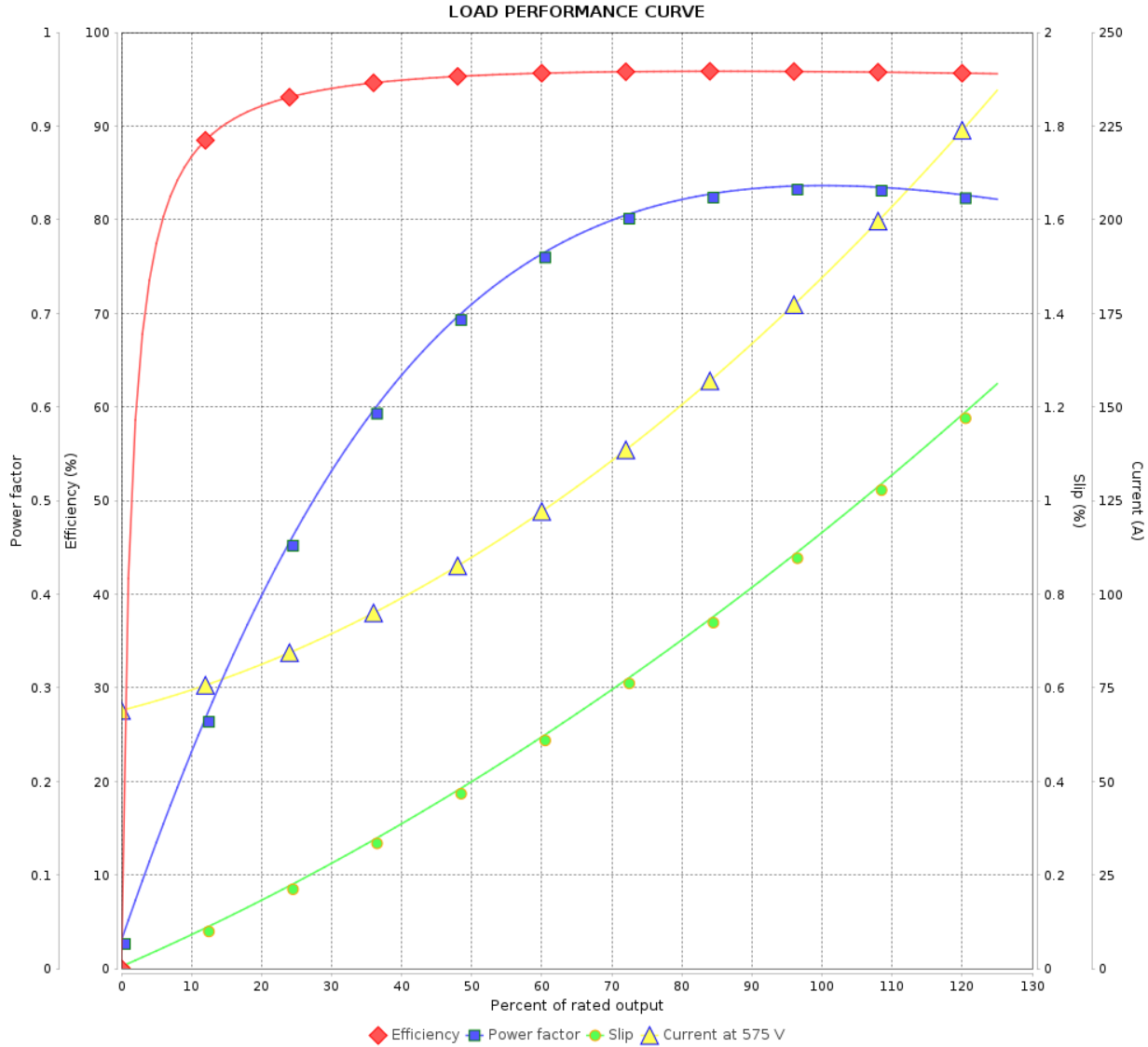
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14448253



Performance : 575 V 60 Hz 4P

Rated current : 187 A
 LRC : 6.6
 Rated torque : 81.4 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1783 rpm

Moment of inertia (J) : 1.96 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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