DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Three-Product code: 15322243 : 447/9TSD Locked rotor time Frame : 25s (cold) 14s (hot) Output : 500 HP (370 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 429 A : IP23 Cooling method : IC01 - ODP L. R. Amperes : 3044 A **LRC** : 7.1x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 96.0 A Rotation¹ Rated speed : 3570 rpm Noise level² : 87.0 dB(A) Slip : 0.83 % Starting method : Direct On Line Rated torque : 102 kgfm Approx. weight³ : 1017 kg Locked rotor torque : 190 % Breakdown torque : 250 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 1.98 kgm² Design : A 50% 75% Output 100% Foundation loads Efficiency (%) 95.8 96.2 96.2 Max. traction : 1714 kgf Power Factor : 2731 kgf 0.84 0.89 0.90 Max. compression Non drive end Drive end Bearing type 6314 C3 6314 C3 Without Bearing Seal Without Bearing Seal Sealing Lubrication interval 14418 h

14418 h

Lubricant amount 27 g 27 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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Three Phase Induction Motor - Squirrel Cage



| Customer | |
|----------|--|
| Customer | |

Thermal protection

| | | • | | |
|----|-------------|----------------------|-----------|---------------------|
| ID | Application | Туре | Quantity | Sensing Temperature |
| 1 | Winding | Thermistor - 2 wires | 1 x Phase | 155 °C |

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

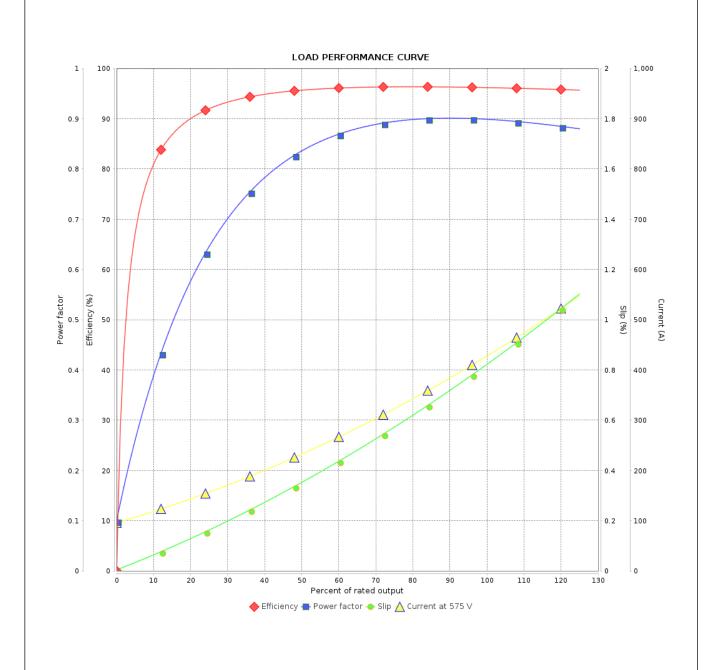
Product line : W40 NEMA Premium Efficiency Three-

Phase

16/01/2024

Date

Product code: 15322243



| Performance | : 575 V 60 Hz 2P | | | | |
|---------------------|------------------|-----------------------|-----------|-------------|----------|
| Rated current | : 429 A | Moment of inertia (J) | | : 1.98 kgm² | |
| LRC | : 7.1 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 102 kgfm | Insulation class | | : F | |
| Locked rotor torque | : 190 % | Service factor | | : 1.15 | |
| Breakdown torque | : 250 % | Temperature rise | : 80 K | | |
| Rated speed | : 3570 rpm | Design | | : A | |
| Rev. | Changes Summary | | Performed | Checked | Date |
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