DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer | : | | | | | |
|--|---|---|--|--------------|---|--|
| Product line | | | | n Proof NEMA | | 14407172 |
| Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design | | : 286T : 30 HP (22 kW) : 4 : 60 Hz : 575 V : 28.1 A : 171 A : 6.1x(Code G) : 9.84 A : 1770 rpm : 1.67 % : 12.3 kgfm : 240 % : 240 % : F : 1.15 : 0.2175 kgm² : B | | | Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³ | : 30s (cold) 17s (hot) : 105 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 68.0 dB(A) : Direct On Line : 224 kg |
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) Power Factor | 92.3 0.46 | 93.0 0.70 | 93.0 0.80 | 93.6 0.84 | Max. traction Max. compression | : 310 kgf : 534 kgf |
| Bearing type Sealing Lubrication interv Lubricant amount Lubricant type Notes | ealing : Oil Seal ubrication interval : 20000 h ubricant amount : 18 g ubricant type : Mo | | Non drive end 6211 C3 Lip Seal 20000 h 11 g obil Polyrex EM | | | |
| | | | | | | |

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 | | | | Page | Revision |
| Date | 28/10/2024 | | | 1/3 | |

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

Thermal protection

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

| Rev. | Changes Summary | | Performed | Checked | Date |
|--------------|-----------------|--|-----------|---------|----------|
| | | | | | |
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| Checked by | | | | Page | Revision |
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



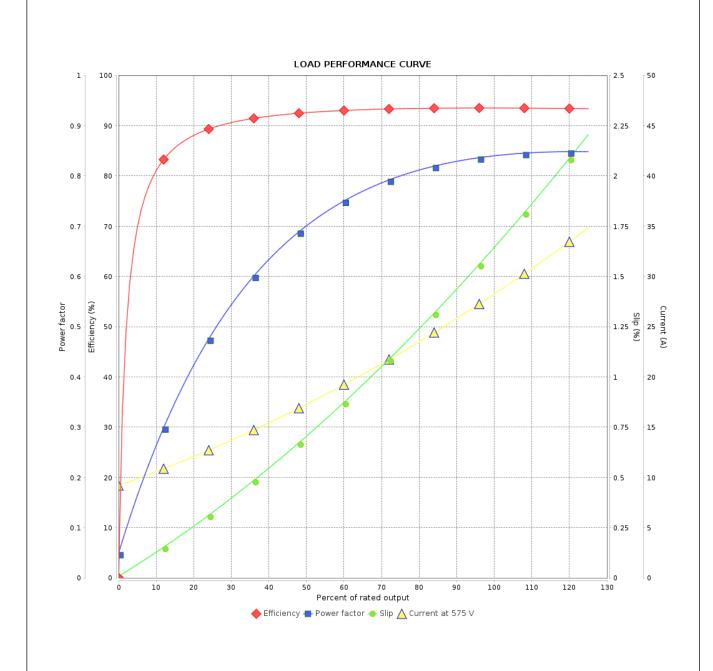
Revision

Customer

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14407172



Performance : 575 V 60 Hz 4P : 28.1 A Rated current Moment of inertia (J) : 0.2175 kgm² **LRC** : 6.1 Duty cycle : Cont.(S1) : 12.3 kgfm Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by