

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|---|-----------------|---|--|---|----------|
| Customer : | | | | | |
| Product line | | : W21 Flameproof Motor IE1 Three-Phase | | Product code : 10015942 | |
| Frame : 180L Output : 22 kW Poles : 4 Frequency : 50 Hz Rated voltage : 380/660 V Rated current : 42.6/24.5 A L. R. Amperes : 320/184 A LRC : 7.5 No load current : 16.0/9.21 A Rated speed : 1465 rpm Slip : 2.33 % Rated torque : 14.6 kgfm Locked rotor torque : 250 % Breakdown torque : 250 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.2088 kgm ² Design : N | | Locked rotor time : 25s (cold) 14s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 64.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 228 kg | | | |
| Output | 50% | 75% | 100% | Foundation loads Max. traction : 424 kgf Max. compression : 651 kgf | |
| Efficiency (%) | 91.0 | 91.3 | 91.3 | | |
| Power Factor | 0.72 | 0.81 | 0.85 | | |
| | | <u>Drive end</u> | <u>Non drive end</u> | | |
| Bearing type | : | 6311 ZZ C3 | 6211 ZZ C3 | | |
| Sealing | : | Lip Seal | Lip Seal | | |
| 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 IEC 60034-1. | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | | |
| Date | 12/10/2020 | | | Page 1 / 2 | Revision |

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Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1 | Winding | Thermistor - 2 wires | 1 x Phase | 150 °C |

Space heater information

Voltage: 110 - 127 V

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|--------------|-----------------|--|-----------|---------|----------|
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