

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|---|-------------------|------------------|--|------------------------|----------|
| Customer : | | | | | |
| Product line : MULTIMOUNTING | | | Product code : 13094943 | | |
| Frame | : 132S | | Locked rotor time | : 19s (cold) 11s (hot) | |
| Output | : 7.5 kW (10 HP) | | Temperature rise | : 80 K | |
| Poles | : 2 | | Duty cycle | : S1 | |
| Frequency | : 50 Hz | | Ambient temperature | : -20°C to +40°C | |
| Rated voltage | : 380/660 V | | Altitude | : 1000 m.a.s.l. | |
| Rated current | : 14.3/8.23 A | | Protection degree | : IP55 | |
| L. R. Amperes | : 122/70.0 A | | Cooling method | : IC411 - TEFC | |
| LRC | : 8.5 | | Mounting | : B5T | |
| No load current | : 4.80/2.76 A | | Rotation ¹ | : Both (CW and CCW) | |
| Rated speed | : 2940 rpm | | Noise level ² | : 63.0 dB(A) | |
| Slip | : 2.00 % | | Starting method | : Direct On Line | |
| Rated torque | : 18.0 ft.lb | | Approx. weight ³ | : 148 lb | |
| Locked rotor torque | : 240 % | | | | |
| Breakdown torque | : 300 % | | | | |
| Insulation class | : F | | | | |
| Service factor | : 1.00 | | | | |
| Moment of inertia (J) | : 0.5975 sq.ft.lb | | | | |
| Design | : N | | | | |
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 89.6 89.1 | 90.6 90.5 | 90.6 90.8 | Max. traction | : 270 lb |
| | 88.6 86.5 | 90.3 89.5 | 90.8 90.2 | | |
| Power Factor | 0.74 0.69 | 0.84 0.80 | 0.88 0.86 | Max. compression | : 417 lb |
| | 0.65 0.68 | 0.77 0.79 | 0.83 0.85 | | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | |
| Losses (%) | P1 (0,9;1,0) | 10.1 | 9.9 | 9.9 | 10.6 |
| | P2 (0,5;1,0) | 8.5 | 8.3 | 8.3 | 8.9 |
| | P3 (0,25;1,0) | 7.8 | 7.6 | 7.6 | 8.2 |
| | P4 (0,9;0,5) | 4.9 | 4.7 | 4.7 | 5.1 |
| | P5 (0,5;0,5) | 3.3 | 3.2 | 3.2 | 3.4 |
| | P6 (0,5;0,25) | 2.1 | 2.1 | 2.1 | 2.2 |
| | P7 (0,25;0,25) | 1.4 | 1.4 | 1.4 | 1.5 |
| Bearing type | : | <u>Drive end</u> | <u>Non drive end</u> | | |
| Sealing | : | 6308 ZZ | 6207 ZZ | | |
| Lubrication interval | : | Oil Seal | Oil Seal | | |
| 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). | | | 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 | | | | | |
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Customer : _____

Large empty rectangular area for technical specifications and data.

(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

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Customer : _____

Thermal protection

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

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| | | | Revision | |