

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | |
|--|--|
| Customer : | |
| Product line : W22 IE3 Three-Phase | Product code : 12882077 |
| Frame : 112M Insulation class : F Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : N | Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 45.2 kg Moment of inertia (J) : 0.0180 kgm ² |
| Output [kW] | 4 |
| Poles | 4 |
| Frequency [Hz] | 50 |
| Rated voltage [V] | 220/380 |
| Rated current [A] | 14.6/8.47 |
| L. R. Amperes [A] | 95.1/55.1 |
| LRC [A] | 6.5 |
| No load current [A] | 7.43/4.30 |
| Rated speed [RPM] | 1445 |
| Slip [%] | 3.67 |
| Rated torque [Nm] | 26.4 |
| Locked rotor torque [%] | 220 |
| Breakdown torque [%] | 270 |
| Service factor | 1.00 |
| Temperature rise | 80 K |
| Locked rotor time | 27s (cold) 15s (hot) |
| Noise level ² | 56.0 dB(A) |
| Efficiency (%) | 25% |
| | 50% |
| | 75% |
| | 100% |
| Power Factor | 25% |
| | 50% |
| | 75% |
| | 100% |
| Losses at normative operating points (speed;torque), in percentage of rated output power | |
| Losses (%) | P1 (0,9;1,0) |
| | P2 (0,5;1,0) |
| | P3 (0,25;1,0) |
| | P4 (0,9;0,5) |
| | P5 (0,5;0,5) |
| | P6 (0,5;0,25) |
| | P7 (0,25;0,25) |
| Bearing type : Drive end 6207 ZZ Non drive end 6206 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM | Foundation loads Max. traction : 1474 N Max. compression : 1918 N |
| 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. | |
| Rev. | Changes Summary |
| Performed by | Performed |
| Checked by | Checked |
| Date | 29/08/2023 |
| Page | 1 / 3 |
| Revision | |

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Notes

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 29/08/2023 | | 2 / 3 | |

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Thermal protection

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

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| | | | | |
| Performed by | | | | Page 3 / 3 |
| Checked by | | | | |
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| | | | | Revision |