

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|--|-----------|---------|----------|
| Customer : | | | | |
| Product line : W22 IE3 Three-Phase | Product code : 12881787 | | | |
| Frame : 90L 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 : 23.8 kg Moment of inertia (J) : 0.0026 kgm ² | | | |
| Output [kW] | 2.2 | | | |
| Poles | 2 | | | |
| Frequency [Hz] | 50 | | | |
| Rated voltage [V] | 380/660 | | | |
| Rated current [A] | 4.58/2.64 | | | |
| L. R. Amperes [A] | 32.1/18.5 | | | |
| LRC [A] | 7.0 | | | |
| No load current [A] | 2.00/1.15 | | | |
| Rated speed [RPM] | 2870 | | | |
| Slip [%] | 4.33 | | | |
| Rated torque [Nm] | 7.32 | | | |
| Locked rotor torque [%] | 310 | | | |
| Breakdown torque [%] | 300 | | | |
| Service factor | 1.00 | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 18s (cold) 10s (hot) | | | |
| Noise level ² | 62.0 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 6205 ZZ Non drive end 6204 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM | Foundation loads Max. traction : 638 N Max. compression : 871 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 | Checked | Date |
| Performed by | | | | |
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Notes

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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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