

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W20 Three-Phase Product code : 17837078

| | | | |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame | : 180L | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 15 kW (20 HP) | Temperature rise | : 80 K |
| Frequency | : 50 Hz | Duty cycle | : S1 |
| Rated voltage | : 400/690 V | Ambient temperature | : -20°C to +40°C |
| Poles | : 6 | Altitude | : 1000 m.a.s.l. |
| Rated current | : 28.6/16.6 A | Protection degree | : IP55 |
| LRC | : 8.5 | Cooling method | : IC411 - TEFC |
| Rated speed | : 980 rpm | Mounting | : B3T |
| Rated torque | : 146 Nm | Rotation ¹ | : Both (CW and CCW) |
| Insulation class | : F | Noise level ² | : 56.0 dB(A) |
| Service factor | : 1.00 | Starting method | : Direct On Line |
| Moment of inertia (J) | : 0.2975 kgm ² | Approx. weight ³ | : 180 kg |
| Design | : N | | |

| | | | | | |
|----------------|------|------|------|------------------|----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 88.7 | 90.5 | 91.2 | Max. traction | : 6455 N |
| Power Factor | 0.64 | 0.76 | 0.83 | Max. compression | : 8221 N |

Losses at normative operating points (speed;torque), in percentage of rated output power

| 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 9.4 | 8.2 | 7.8 | 4.3 | 3.1 | 2.0 | 1.4 |

| | Drive end | Non drive end |
|----------------------|--------------|---------------|
| Bearing type | : 6211 ZZ C3 | : 6211 ZZ C3 |
| Sealing | : V'Ring | : V'Ring |
| Lubrication interval | : - | : - |
| Lubricant amount | : - | : - |
| Lubricant type | : 00088 | |

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 |
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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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