DATA SHEET

Three Phase Induction Motor - Squirrel Cage



: B3T

: MGE : MGE Customer reference

Product line : W20 Three-Phase Product code: 16469273

Frame : 160M

Locked rotor time : 21s (cold) 0s (hot) Output : 11 kW (15 HP) Temperature rise : 80 K Poles Duty cycle : S1 : 4

Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 400/690 V Altitude : 1000 m.a.s.l. Rated current : 21.5/12.4 A Protection degree : IP55 : 165/95.8 A Cooling method : IC411 - TEFC L. R. Amperes

LRC : 7.7 Mounting

No load current : 10.6/6.17 A Rotation¹ : Both (CW and CCW) Rated speed : 1470 rpm Noise level² : 62.0 dB(A) Slip : 2.00 % Starting method : Direct On Line Rated torque : 71.5 Nm Approx. weight3 : 111 kg

Locked rotor torque : 290 % Breakdown torque : 310 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.1025 kgm²

Design : N

Output 50% 75% 100% Foundation loads 90.3 Efficiency (%) 89.2 91.4 : 2944 N Max. traction : 4036 N Power Factor 0.63 0.75 0.81 Max. compression

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)
9.0	7.3	7.1	5.0	3.4	2.5	1.8

Drive end Non drive end Bearing type 6209 ZZ C3 6209 ZZ C3 V'Ring V'Ring Sealing Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes PTC

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.

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Thermal protection					
ID	Application	Туре	Quantity	Sensing Temperature	
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C	

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