DATA SHEET

Three Phase Induction Motor - Squirrel Cage



: MGE : MGE Customer reference

Product line : W20 Three-Phase Product code: 16401666 Frame : 34s (cold) 19s (hot) : L100L Locked rotor time Output : 3 kW (4 HP) Temperature rise : 80 K Poles Duty cycle : S1 : 4 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/400 V Altitude : 1000 m.a.s.l. Rated current : 10.7/6.18 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 77.3/44.5 A **LRC** : 7.2 Mounting : B3T No load current : 5.79/3.33 A Rotation¹ : Both (CW and CCW) Rated speed : 1435 rpm Noise level² : 53.0 dB(A) Slip : 4.33 % Starting method : Direct On Line Rated torque : 20.0 Nm Approx. weight3 : 32.0 kg Locked rotor torque : 380 % Breakdown torque : 380 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0112 kgm² Design : N Output 50% 75% 100% Foundation loads Efficiency (%) 85.5 86.5 87.7 Max. traction : 1740 N Power Factor 0.60 0.73 0.80 : 2054 N 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)
13.2	11.4	11.8	6.5	4.7	3.2	2.4

Drive end Non drive end Bearing type 6206 ZZ 6206 ZZ V'Ring V'Ring Sealing Lubrication interval

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).
- (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
Performed by					
Checked by				Page	Revision
Date	29/09/2023			1/1	

