DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : MGE
Customer reference : MGE

Product line : W20 Three-Phase Product code: 16400218 Frame : 18s (cold) 10s (hot) : 90S/L Locked rotor time Output : 2.2 kW (3 HP) Temperature rise : 80 K Poles Duty cycle : S1 : 2 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/400 V Altitude : 1000 m.a.s.l. Rated current : 7.57/4.35 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 53.0/30.5 A LRC : 7.0 Mounting : B3T No load current : 3.69/2.12 A Rotation¹ : Both (CW and CCW) Rated speed : 2855 rpm Noise level² : 62.0 dB(A) Slip : 4.83 % Starting method : Direct On Line Rated torque : 7.36 Nm Approx. weight3 : 18.9 kg Locked rotor torque : 340 % Breakdown torque : 340 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0025 kgm² Design : N Output 50% 75% 100% Foundation loads

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

85.9

0.85

85.1

0.79

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)
15.6	13.5	13.3	7.4	5.1	3.4	2.4

Max. traction

Max. compression

Drive endNon drive endBearing type:6205 ZZ6204 ZZSealing:V'RingV'RingLubrication interval:--

Lubricant amount : Lubricant type : Mobil Polyrex EM

Notes

Efficiency (%)

Power Factor

84.2

0.67

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.

: 622 N

: 807 N

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/09/2023			1/1	

