DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : MGE
Customer reference : MGE

Product line : W20 Three-Phase Product code: 16850291 Frame : 28s (cold) 16s (hot) : 90S/L Locked rotor time Output : 1.1 kW (1.5 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 : 4.26/2.45 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 29.4/16.9 A LRC : 6.9 Mounting : B3T No load current : 2.58/1.48 A Rotation¹ : Both (CW and CCW) Rated speed : 1445 rpm Noise level² : 49.0 dB(A) Slip : 3.67 % Starting method : Direct On Line Rated torque : 7.27 Nm Approx. weight3 : 16.3 kg Locked rotor torque : 210 % Breakdown torque : 270 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0055 kgm² Design : N Output 50% 75% 100% Foundation loads Efficiency (%) 81.5 84.1 84.1 : 481 N Max. traction

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

0.77

0.70

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)
18.4	16.8	16.8	9.7	7.3	5.6	4.2

Max. compression

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

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

Power Factor

0.58

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.

: 641 N

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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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