## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer : MGE Customer reference : MGE

Product line : W22 IE4 Three-Phase Product code: 17010360 Frame : 72s (cold) 40s (hot) : 280S/M Locked rotor time Output : 75 kW (100 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 : 136/78.8 A Protection degree : IP55 : 1046/606 A Cooling method : IC411 - TEFC L. R. Amperes LRC : 7.7 Mounting : B3T No load current : 50.0/29.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1486 rpm Noise level<sup>2</sup> : 69.0 dB(A) Slip : 0.93 % Starting method : Direct On Line Rated torque : 481 Nm Approx. weight3 : 778 kg Locked rotor torque : 260 % Breakdown torque : 280 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 2.85 kgm<sup>2</sup> Design : NE Output 50% 75% 100% Foundation loads

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

96.0

0.83

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)
3.8	2.9	2.6	1.9	1.2	0.8	0.5

Max. traction

Max. compression

Drive endNon drive endBearing type:6316 C36316 C3Sealing:WSealWSealLubrication interval:13000 h13000 hLubricant amount:34 g34 g

Lubricant type : Mobil Polyrex EM

95.8

0.80

Notes

Efficiency (%)

Power Factor

95.3

0.70

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.

: 7057 N

: 14692 N

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

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