

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : MGE
Customer reference : MGE

Product line : W22 IE4 Three-Phase

Product code : 12774313

Frame	: 225S/M	Locked rotor time	: 36s (cold) 0s (hot)
Output	: 37 kW (50 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 67.6/39.2 A	Protection degree	: IP55
L. R. Amperes	: 581/337 A	Cooling method	: IC411 - TEFC
LRC	: 8.6	Mounting	: B3T
No load current	: 29.7/17.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1484 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.07 %	Starting method	: Direct On Line
Rated torque	: 238 Nm	Approx. weight ³	: 413 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.7346 kgm ²		
Design	: NE		

Output	50%	75%	100%
Efficiency (%)	94.4	95.0	95.2
Power Factor	0.67	0.78	0.83

Foundation loads	
Max. traction	: 6872 N
Max. compression	: 10919 N

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)
4.8	3.7	3.3	2.7	1.7	1.3	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	14000 h	14000 h
Lubricant amount	:	27 g	27 g
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	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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