

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : MGE
Customer reference : MGE

Product line : W22 IE4 Three-Phase

Product code : 12774240

Frame	: 160M	Locked rotor time	: 80 K
Output	: 11 kW (15 HP)	Temperature rise	: S1
Poles	: 2	Duty cycle	: -20°C to +40°C
Frequency	: 50 Hz	Ambient temperature	: 1000 m.a.s.l.
Rated voltage	: 400/690 V	Altitude	: IP55
Rated current	: 19.9/11.5 A	Protection degree	: IC411 - TEFC
L. R. Amperes	: 169/98.1 A	Cooling method	: B3T
LRC	: 8.5	Mounting	: Both (CW and CCW)
No load current	: 7.80/4.52 A	Rotation ¹	: 67.0 dB(A)
Rated speed	: 2955 rpm	Noise level ²	: Direct On Line
Slip	: %	Starting method	: 134 kg
Rated torque	: 35.6 Nm	Approx. weight ³	
Locked rotor torque	: 290 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0588 kgm ²		
Design	: NE		

Output 50% 75% 100%

Efficiency (%)
Power Factor

Foundation loads

Max. traction : 1295 N
Max. compression : 2609 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)
7.3	5.6	5.2	4.2	2.5	1.8	1.1

	Drive end	Non drive end
Bearing type	: 6309 ZZ C3	: 6209 ZZ C3
Sealing	: V'Ring	: V'Ring
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				
Date	05/10/2023			
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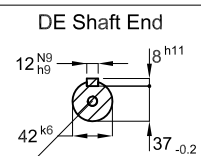
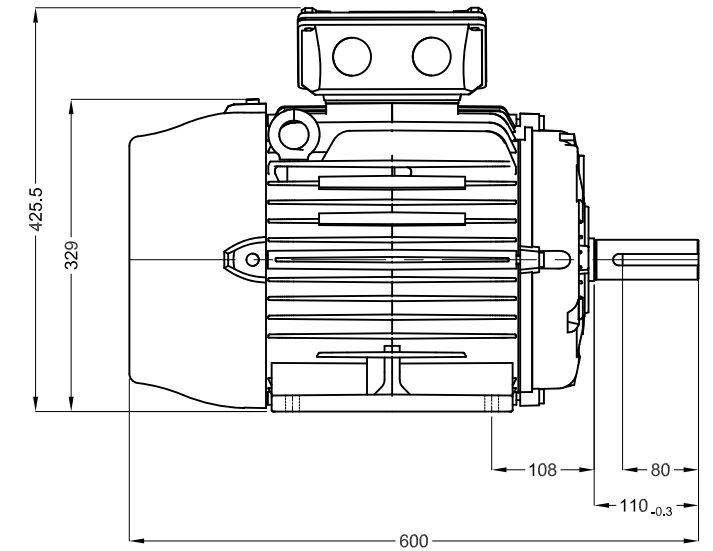
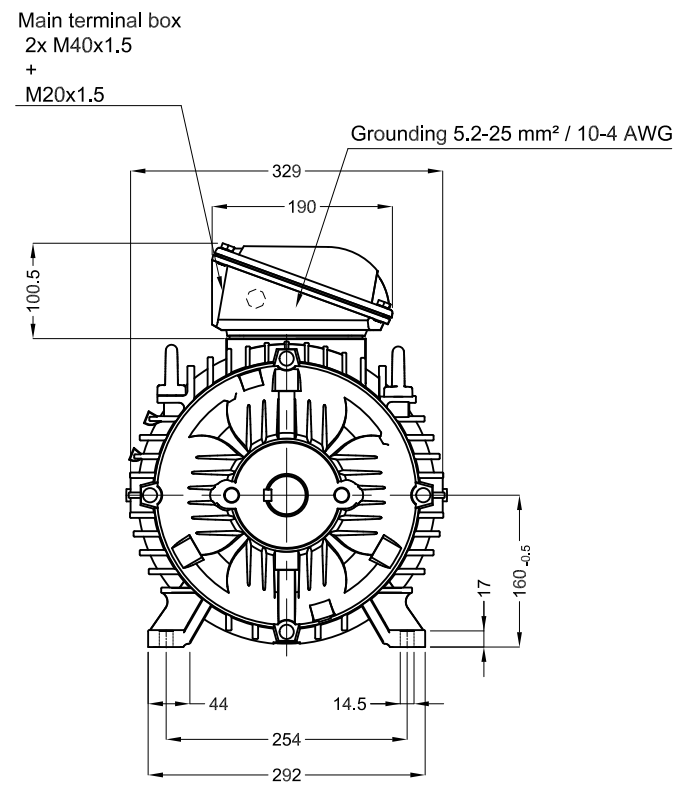
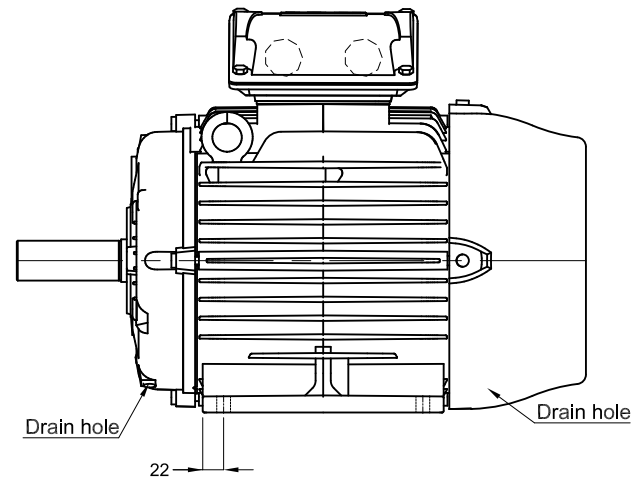
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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DM16 WEG WPR-7339 (DS DIN332)

11 kW 02 Poles 50 Hz										A
				HYBRISUSER					00	
ECM		LOC		SUMMARY OF MODIFICATIONS			EXECUTED		CHECKED	
							RELEASED		DATE	
EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 IE4 FRAME 160M IP55 TEFC			PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
							SHEET		/	