

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : MGE
Customer reference : MGE

Product line : W22 IE4 Three-Phase

Product code : 12774244

Frame	: 160M	Locked rotor time	: 80 K
Output	: 15 kW (20 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	: 27.0/15.7 A	Protection degree	: IC411 - TEFC
L. R. Amperes	: 221/128 A	Cooling method	: B3T
LRC	: 8.2	Mounting	: Both (CW and CCW)
No load current	: 10.4/6.03 A	Rotation ¹	: 67.0 dB(A)
Rated speed	: 2950 rpm	Noise level ²	: Direct On Line
Slip	: %	Starting method	: 145 kg
Rated torque	: 48.6 Nm	Approx. weight ³	
Locked rotor torque	: 310 %		
Breakdown torque	: 360 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0698 kgm ²		
Design	: NE		

Output 50% 75% 100%

Efficiency (%)
Power Factor

Foundation loads

Max. traction : 2077 N
Max. compression : 3501 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)
6.8	5.5	5.3	3.7	2.4	1.6	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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Revision

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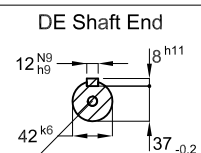
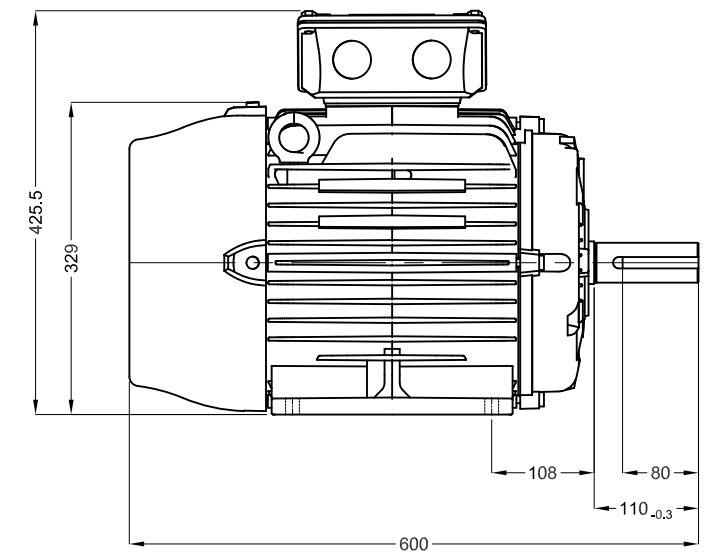
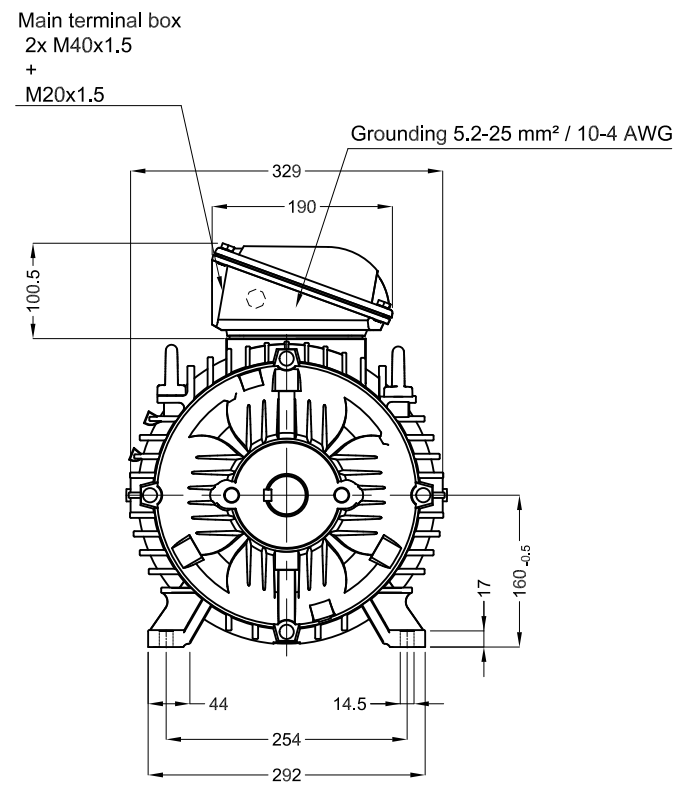
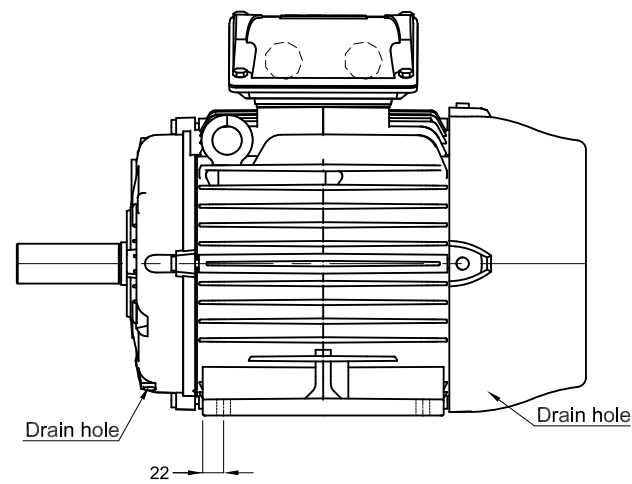
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Thermal protection

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)

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