

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : MGE  
Customer reference : MGE

Product line : W22 IE4 Three-Phase Product code : 12774268

Frame	: 160L	Locked rotor time	: 80 K
Output	: 18.5 kW (25 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	: 32.8/19.0 A	Protection degree	: IC411 - TEFC
L. R. Amperes	: 295/171 A	Cooling method	: B3T
LRC	: 9.0	Mounting	: Both (CW and CCW)
No load current	: 12.5/7.25 A	Rotation <sup>1</sup>	: 67.0 dB(A)
Rated speed	: 2950 rpm	Noise level <sup>2</sup>	: Direct On Line
Slip	: %	Starting method	: 166 kg
Rated torque	: 59.9 Nm	Approx. weight <sup>3</sup>	
Locked rotor torque	: 330 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0840 kgm <sup>2</sup>		
Design	: NE		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)				Max. traction	: 2705 N
Power Factor				Max. compression	: 4331 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)
6.5	5.2	5.0	3.4	2.2	1.5	1.0

		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		Page 1 / 2 Revision		
Checked by				
Date	05/10/2023			

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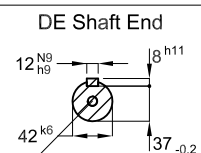
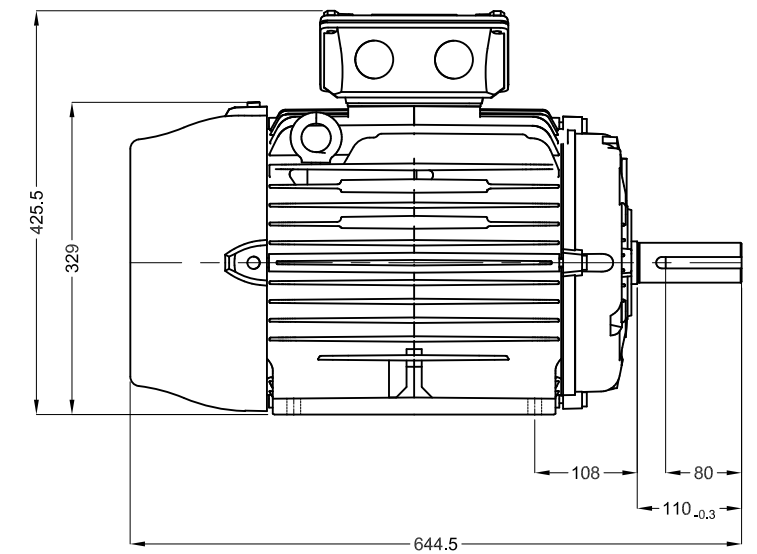
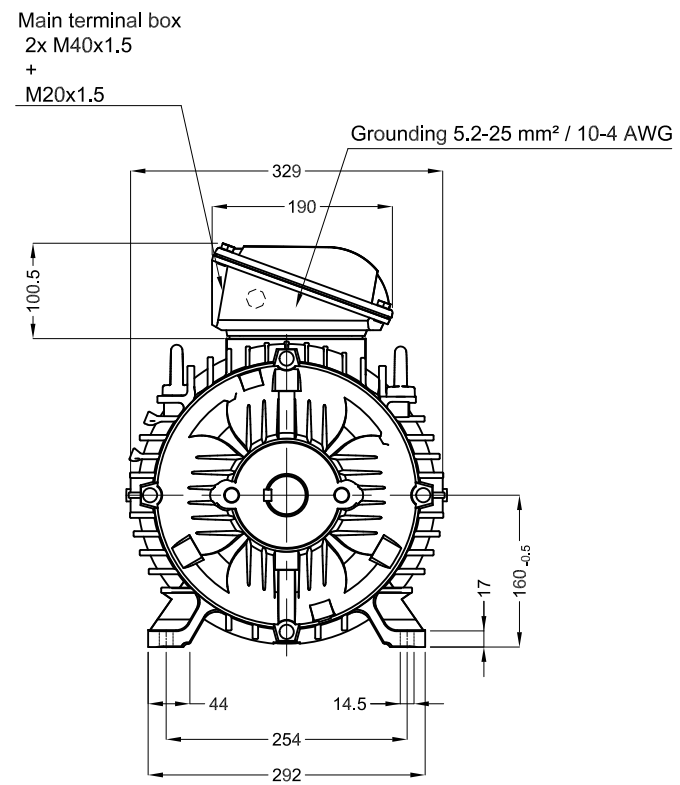
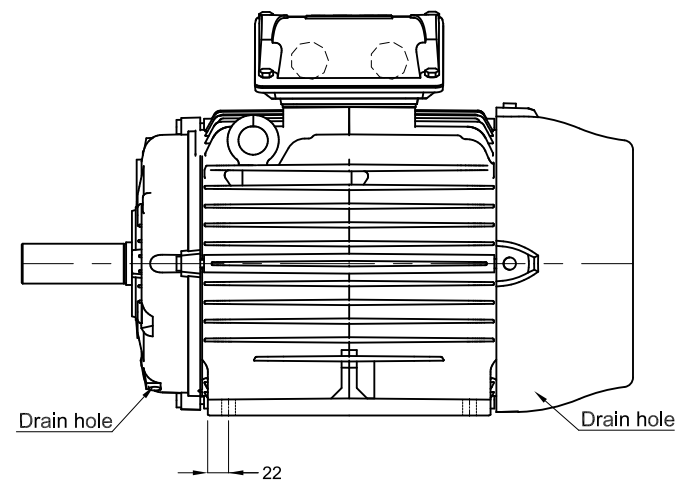
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### Thermal protection

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

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Date	05/10/2023				



DM16 WEG WPR-7339 (DS DIN332)

18.5 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 160L IP55 TEFC				PREVIEW WDD      00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET				