

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12862502

Frame	: 225S/M	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 45 kW (60 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	: 84.1/48.8 A	Protection degree	: IP55
L. R. Amperes	: 656/380 A	Cooling method	: IC411 - TEFC
LRC	: 7.8	Mounting	: B3T
No load current	: 40.0/23.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1485 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 290 Nm	Approx. weight ³	: 413 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.6733 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.5	94.1	94.2	Max. traction	: 8246 N
Power Factor	0.00	0.65	0.77	0.82	Max. compression	: 12300 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)
5.9	5.0	5.0	2.8	1.9	1.2	0.9

	Drive end	Non drive end
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

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	02/12/2025			

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Revision

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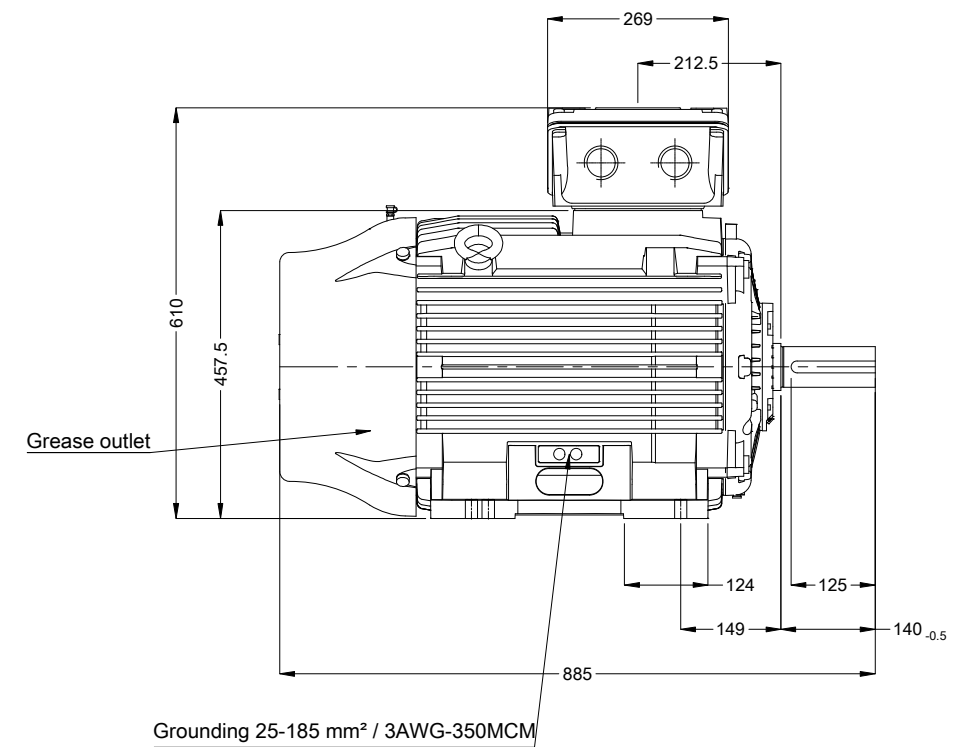
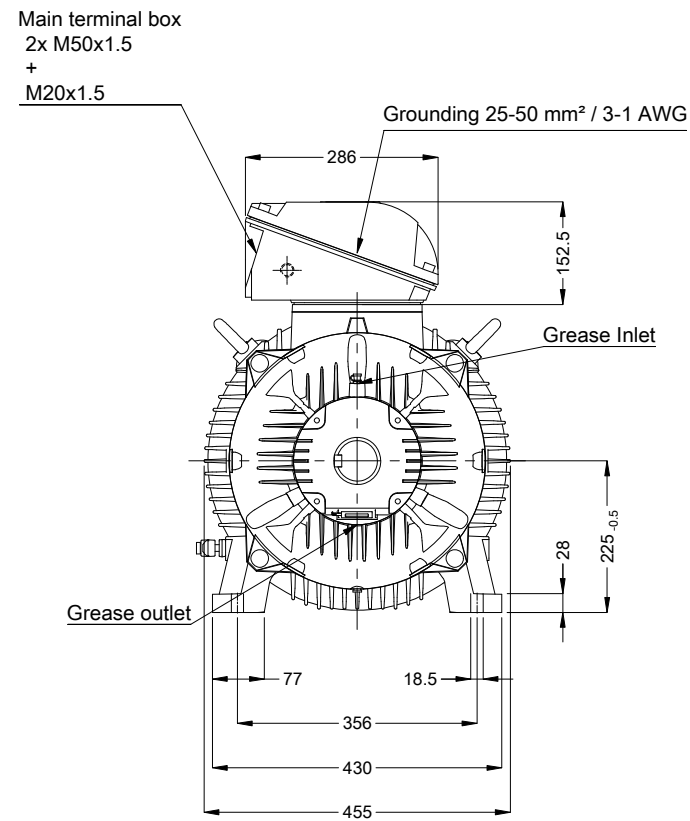
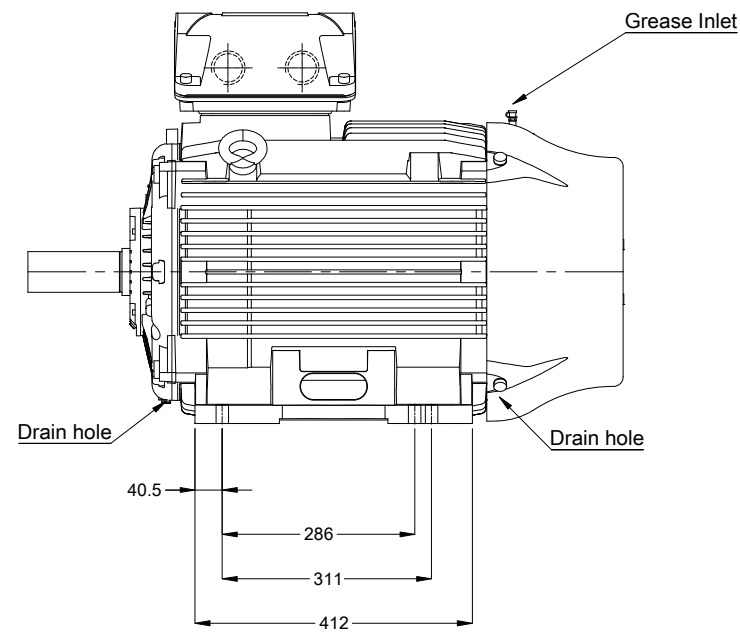


Customer :

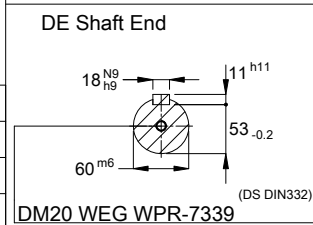
Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
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Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3T



45 kW 04 Poles 50 Hz										A
						Scale 1 : 11				
				HYBRISUSER						00
ECM		LOC		SUMMARY OF MODIFICATIONS		EXECUTED		CHECKED		RELEASED
										DATE
										VER
EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 IE3 FRAME 225S/M IP55 TEFC		PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		