

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: ASTRAPROM				
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			
Frequency	: 50 Hz	Duty cycle	: S1			
Rated voltage	: 400/690 V	Ambient temperature	: -20°C to +40°C			
Poles	: 4	Altitude	: 1000 m.a.s.l.			
Rated current	: 84.1/48.8 A	Protection degree	: IP55			
LRC	: 7.8	Cooling method	: IC411 - TEFC			
Rated speed	: 1485 rpm	Mounting	: B3T			
Rated torque	: 290 Nm	Rotation ¹	: Both (CW and CCW)			
Insulation class	: F	Noise level ²	: 63.0 dB(A)			
Service factor	: 1.00	Starting method	: Direct On Line			
Moment of inertia (J)	: 0.6733 kgm ²	Approx. weight ³	: 413 kg			
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
		<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						
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					Page	Revision
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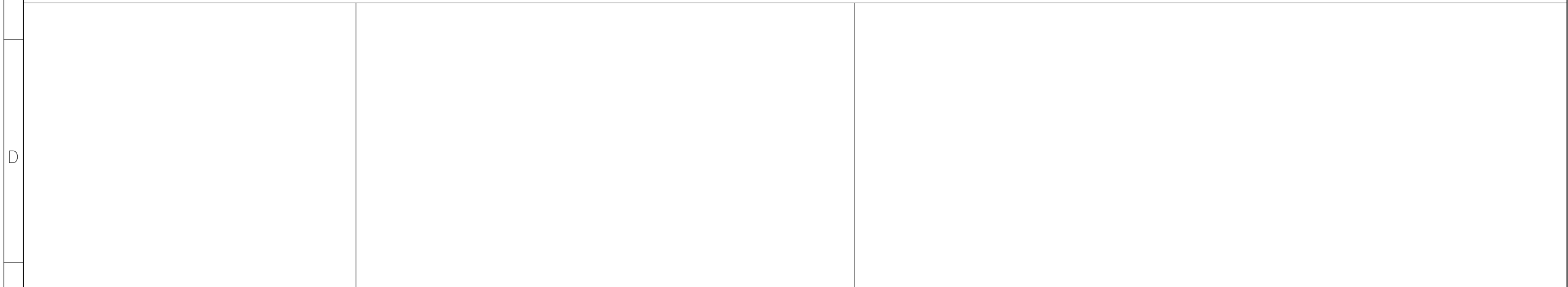
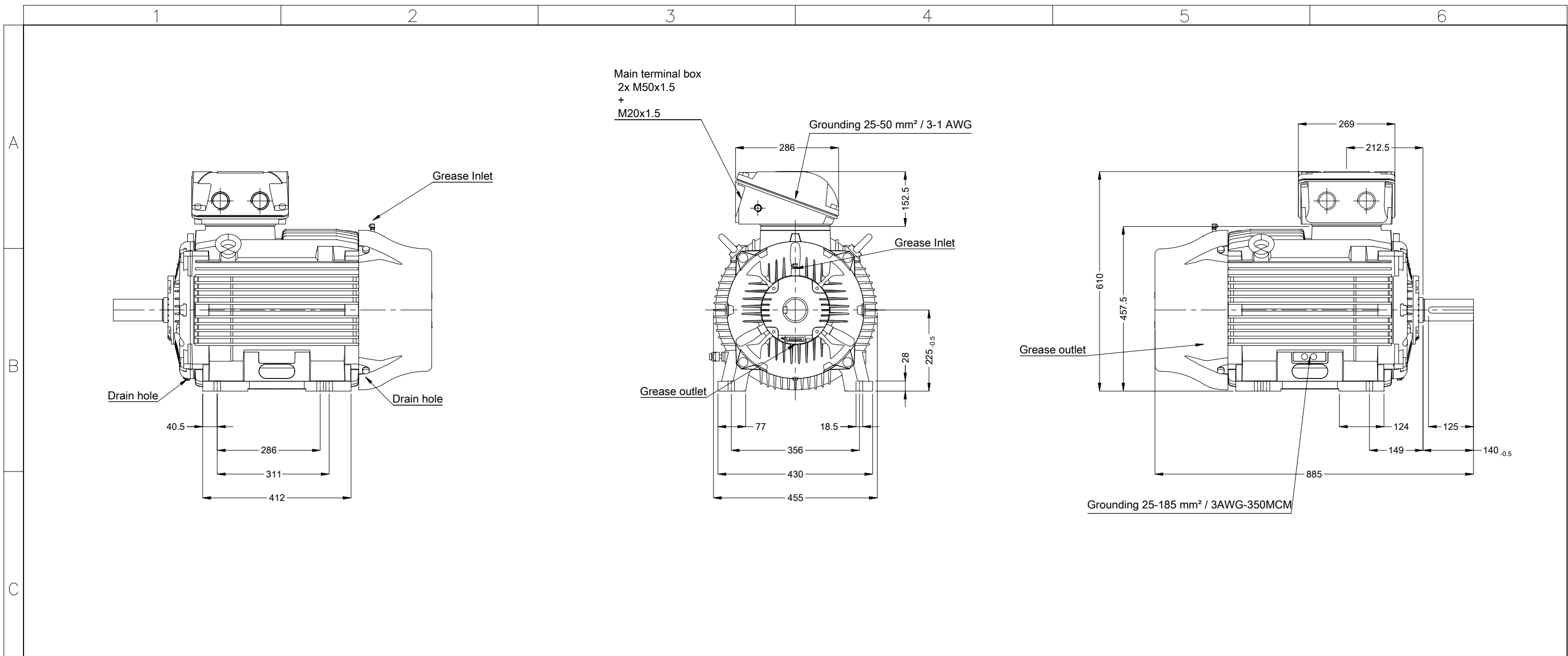
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Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
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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					PREVIEW		WDD 00		
CHECKED		FRAME 225S/M IP55 TEFC					SHEET		1 / 1		
RELEASED											
REL. DATE											

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B3T

