

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : ASTRAPROM

Product line : W22 IE4 Three-Phase Product code : 17017611

Frame	: 280S/M	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 90 kW (125 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	: 165/95.6 A	Protection degree	: IP55
LRC	: 8.0	Cooling method	: IC411 - TEFC
Rated speed	: 1489 rpm	Mounting	: B3T
Rated torque	: 578 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 69.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 2.85 kgm ²	Approx. weight ³	: 775 kg
Design	: NE		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.5	96.0	96.1	Max. traction	: 9652 N
Power Factor	0.69	0.78	0.82	Max. compression	: 17259 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)
3.9	3.1	2.8	2.1	1.3	0.9	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 h	13000 h
Lubricant amount	:	34 g	34 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.

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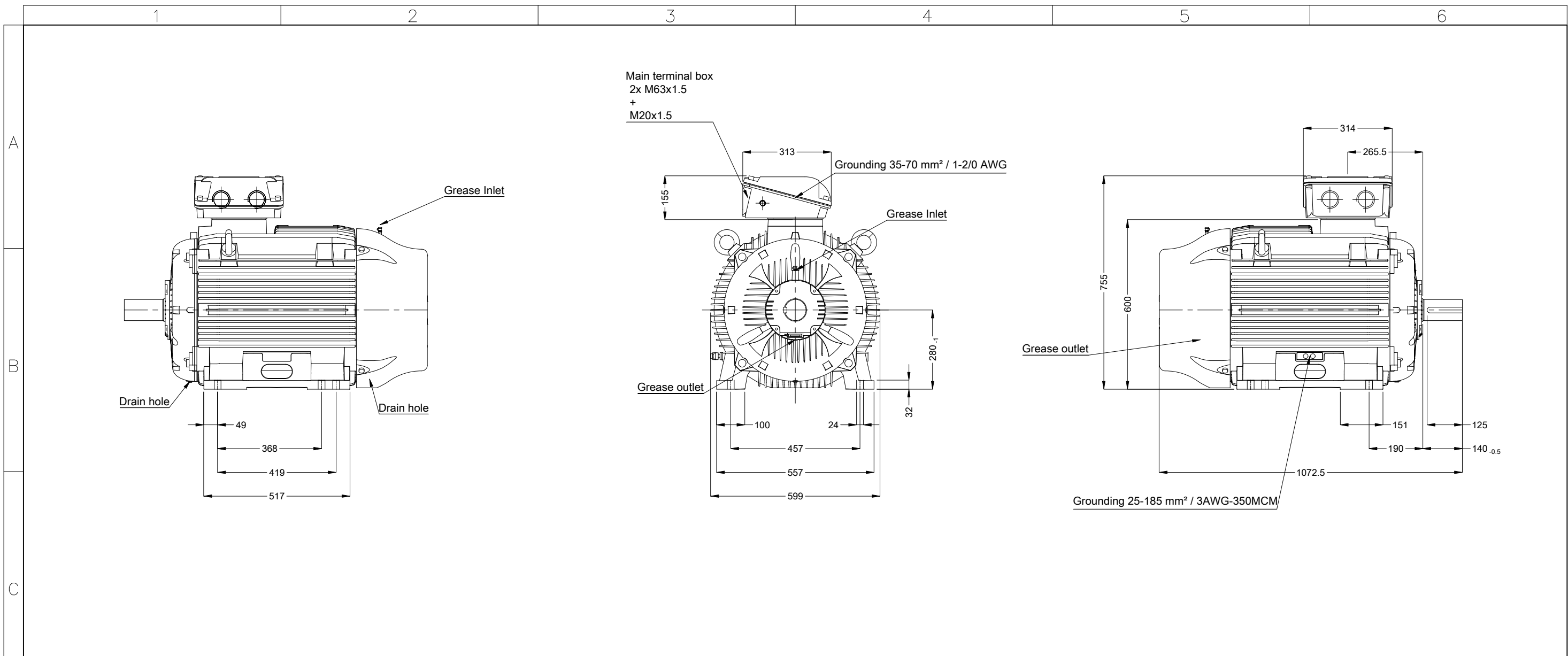
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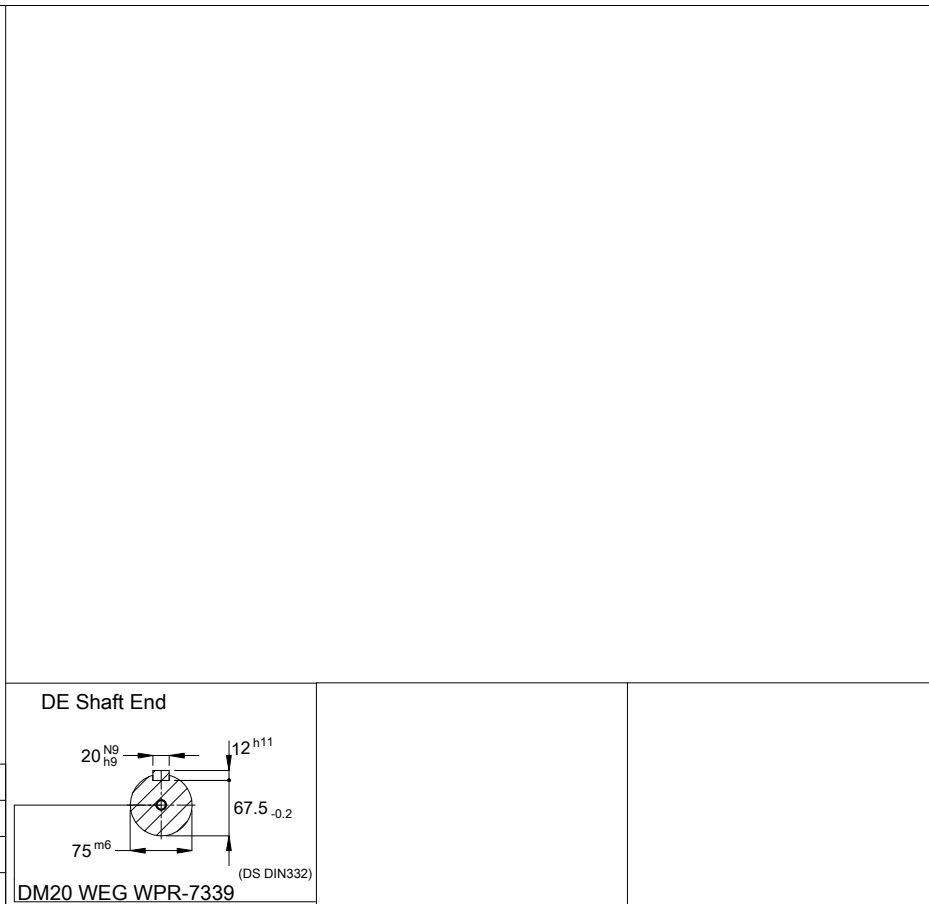
Thermal protection

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

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NDE endshield with electrically insulated bearing hub
Color RAL 5009
Painting plan 203A
Mounting B3T



90 kW 04 Poles 50 Hz										A	
Scale										1 : 14	
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE4					PREVIEW				
CHECKED		FRAME 280S/M IP55 TEFC					WDD	00			
RELEASED							SHEET	1 / 1			
REL. DATE											