

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : ASTRAPROM

Product line : W22 IE3 Three-Phase Product code : 12882015

Frame	: 355M/L	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 315 kW (430 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	: 583/338 A	Protection degree	: IP55
LRC	: 7.9	Cooling method	: IC411 - TEFC
Rated speed	: 1492 rpm	Mounting	: B3T
Rated torque	: 2020 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 76.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 9.47 kgm ²	Approx. weight ³	: 1763 kg
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.5	96.3	96.3	Max. traction	: 26578 N
Power Factor	0.66	0.76	0.81	Max. compression	: 43869 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)
4.4	3.0	2.1	3.5	2.2	2.0	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	5000 h	11000 h
Lubricant amount	:	60 g	45 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
Date	17/04/2026		1 / 2	

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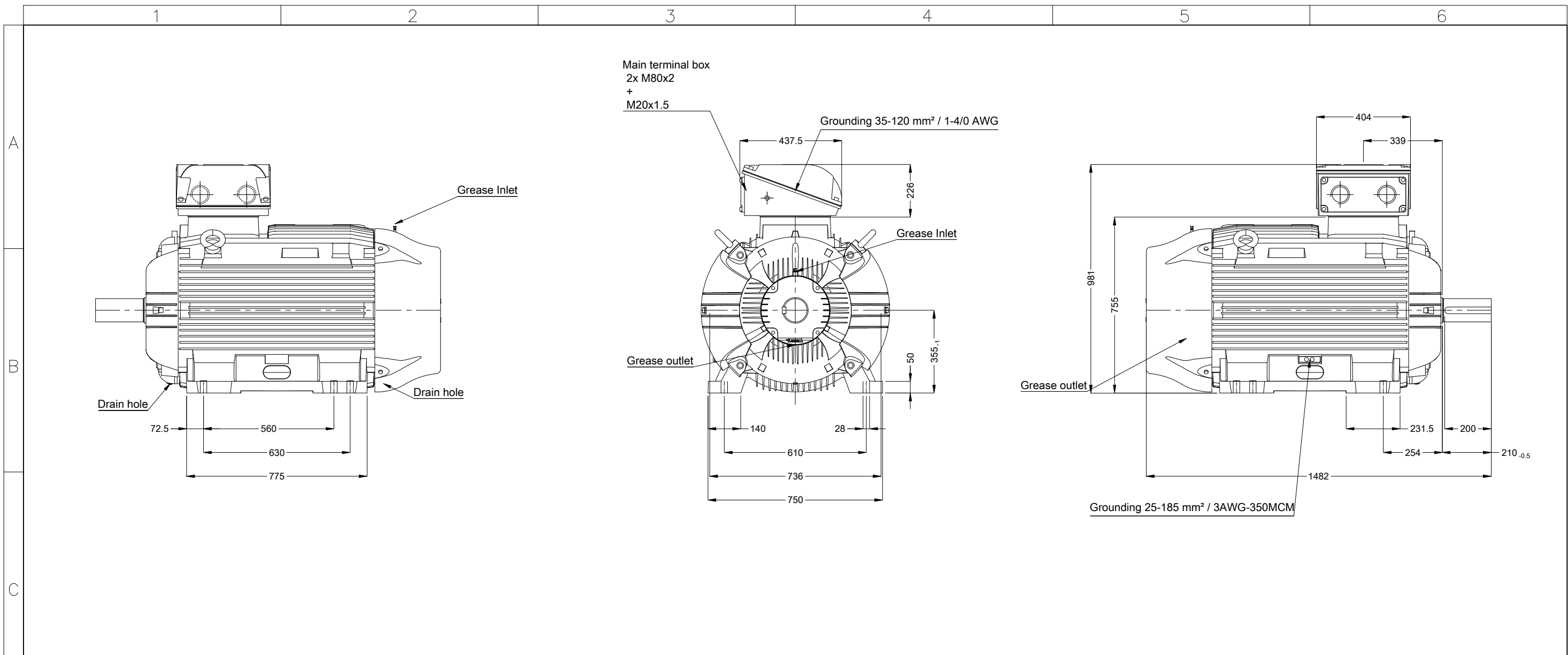
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Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/04/2026		2 / 2	



				315 kW 04 Poles 50 Hz		A				
				Scale		1 : 17				
				HYBRISUSER		00				
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3		PREVIEW				
		CHECKED		FRAME 355M/L IP55 TEFC		WDD		00		
		RELEASED				SHEET		1 / 1		
		REL. DATE								

- Shaft locking device
- DE roller bearing
- NDE endshield with electrically insulated bearing hub
- Drive-End Air Deflector
- Color RAL 5009
- Painting plan 203A
- Mounting B3T

