

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : ASTRAPROM

Product line : W22 IE3 Three-Phase Product code : 12862534

Frame	: 160L	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 15 kW (20 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	: 28.3/16.4 A	Protection degree	: IP55
LRC	: 7.0	Cooling method	: IC411 - TEFC
Rated speed	: 1475 rpm	Mounting	: B5T
Rated torque	: 97.2 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 61.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 0.1534 kgm ²	Approx. weight ³	: 151 kg
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.0	92.5	92.3	Max. traction	: 3443 N
Power Factor	0.00	0.66	0.77	0.83	Max. compression	: 4925 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)
8.2	7.3	7.0	3.8	2.8	1.8	1.3

	Drive end	Non drive end
Bearing type	: 6309 ZZ C3	: 6209 ZZ C3
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: 00088	

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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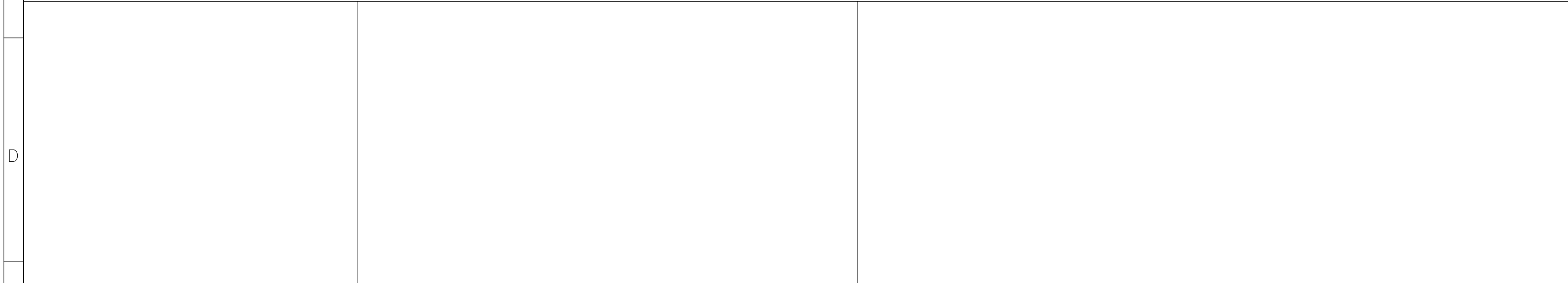
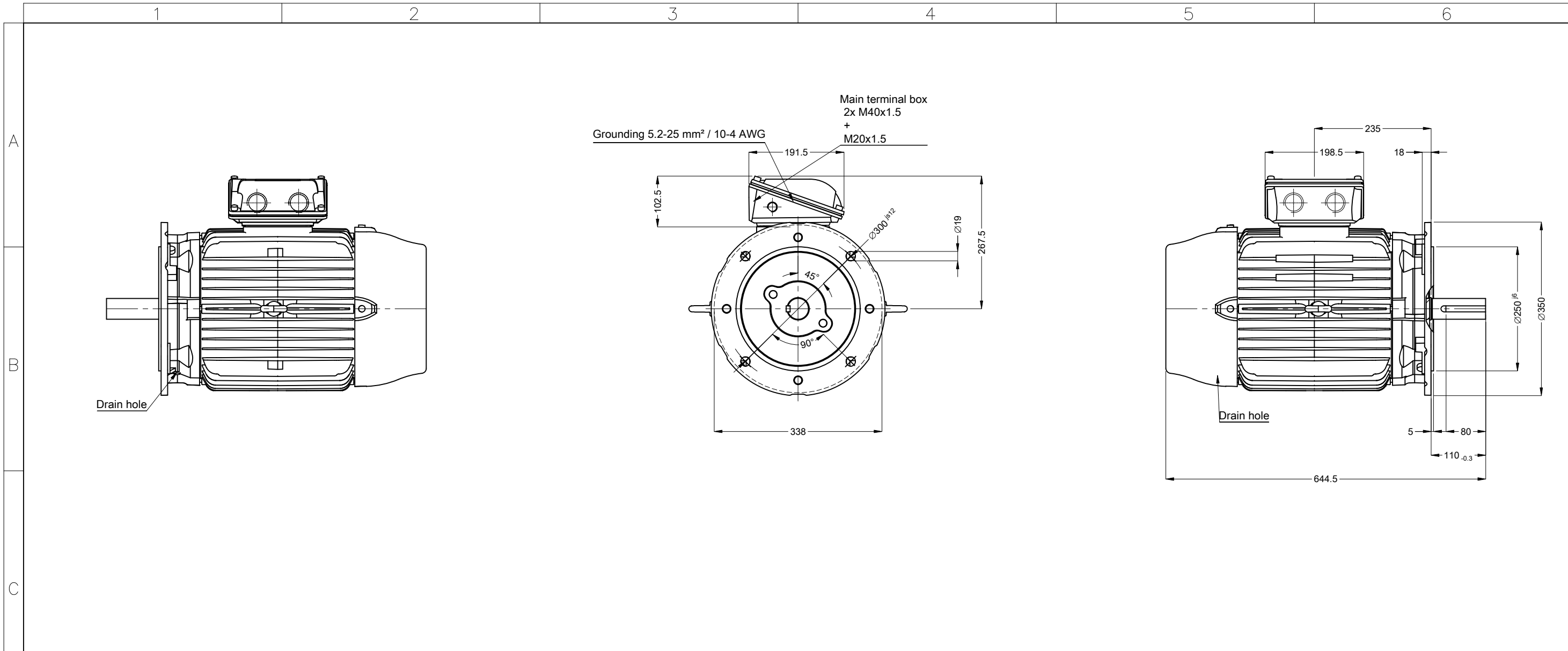
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Thermal protection

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

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Without vertical jackscrews		DE Shaft End		15 kW 04 Poles 50 Hz		Scale 1 : 8		HYBRISUSER		00	
Sealing - oil seal ring								EXECUTED		CHECKED	
Color RAL 5009								ECM		LOC	
Painting plan 203A								SUMMARY OF MODIFICATIONS		RELEASED	
Mounting B5T								EXECUTED		DATE	
								HYBRISUSER		VER	
								THREE PH. MOTOR W22 IE3		PREVIEW	
								FRAME 160L IP55 TEFC		WDD 00	
								REL. DATE		SHEET 1 / 1	