

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase Product code : 12928452

Frame	: 90S/L	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.5 kW (2 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 230/400 V	Ambient temperature	: -20°C to +40°C
Poles	: 2	Altitude	: 1000 m.a.s.l.
Rated current	:	Protection degree	: IP55
	YDESCRICAO_CORRENTE	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3T
Rated speed	: 2900 rpm	Rotation ¹	: Both (CW and CCW)
Rated torque	: 4.94 Nm	Noise level ²	: 62.0 dB(A)
Insulation class	: F	Starting method	: Direct On Line
Service factor	: 1.00	Approx. weight ³	: 18.4 kg
Moment of inertia (J)	: 0.0020 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	83.0	84.2	84.2	Max. traction	: 446 N
Power Factor	0.64	0.75	0.82	Max. compression	: 626 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)
18.1	15.5	14.4	9.3	6.3	4.4	3.1

	Drive end	Non drive end
Bearing type	: 6205 ZZ	: 6204 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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
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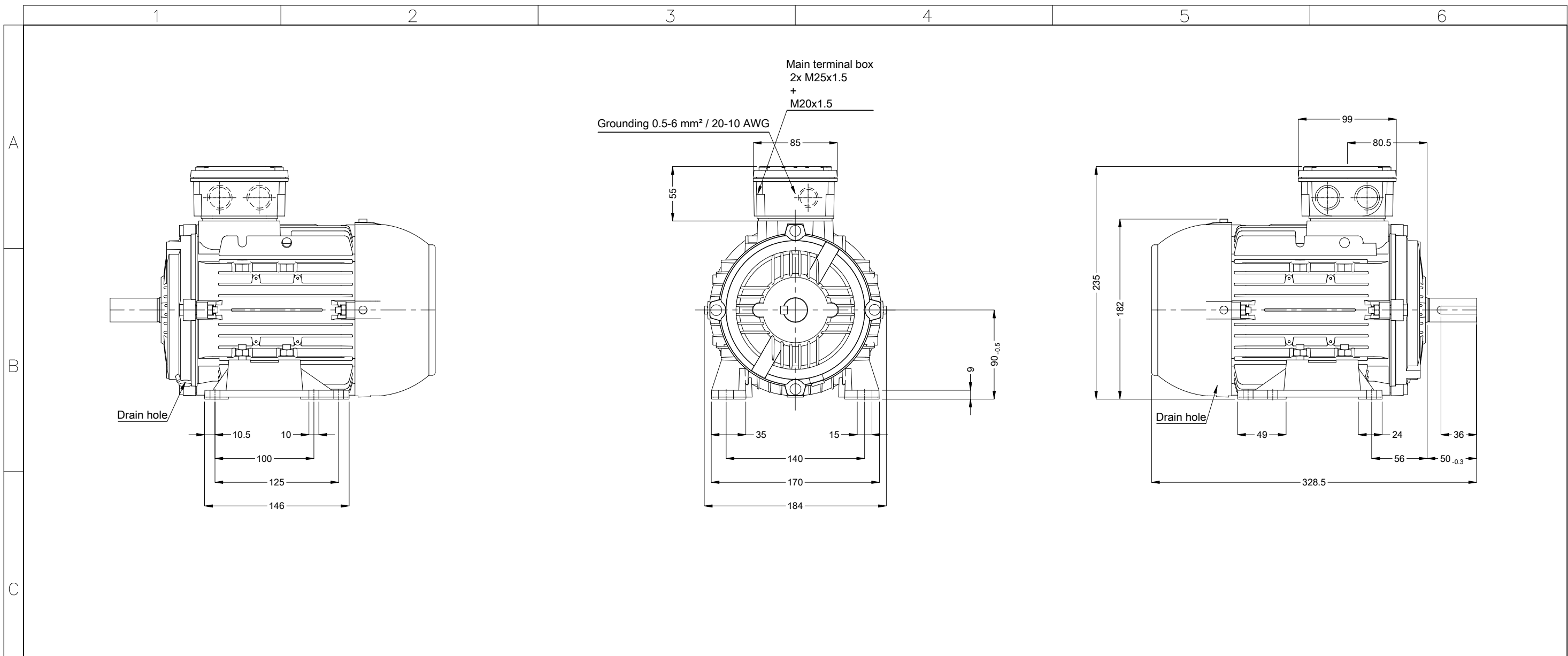


Customer : _____

Thermal protection

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

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				1.5 kW 02 Poles 50 Hz		A	
				Scale		1 : 4	
				HYBRISUSER		00	
				SUMMARY OF MODIFICATIONS		EXECUTED CHECKED RELEASED DATE VER	
				THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF.		PREVIEW	
				FRAME 90S/L IP55 TEFC		WDD 00	
				REL. DATE		SHEET 1 / 1	

Thermal protection to switch off - thermistors 155°C
 Color RAL 5009
 Painting plan 207A
 Mounting B3T

