

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase Product code : 12933133

Frame	: 112M	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 4 kW (5.5 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 400/690 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	: 7.7	Mounting	: B3T
Rated speed	: 2900 rpm	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated torque	: 13.2 Nm	Noise level <sup>2</sup>	: 62.0 dB(A)
Insulation class	: F	Starting method	: Direct On Line
Service factor	: 1.00	Approx. weight <sup>3</sup>	: 36.1 kg
Moment of inertia (J)	: 0.0080 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	87.0	88.0	88.3	Max. traction	: 831 N
Power Factor	0.69	0.80	0.86	Max. compression	: 1185 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)
13.2	12.0	11.0	6.0	4.3	2.7	1.9

	Drive end	Non drive end
Bearing type	: 6207 ZZ	: 6206 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.

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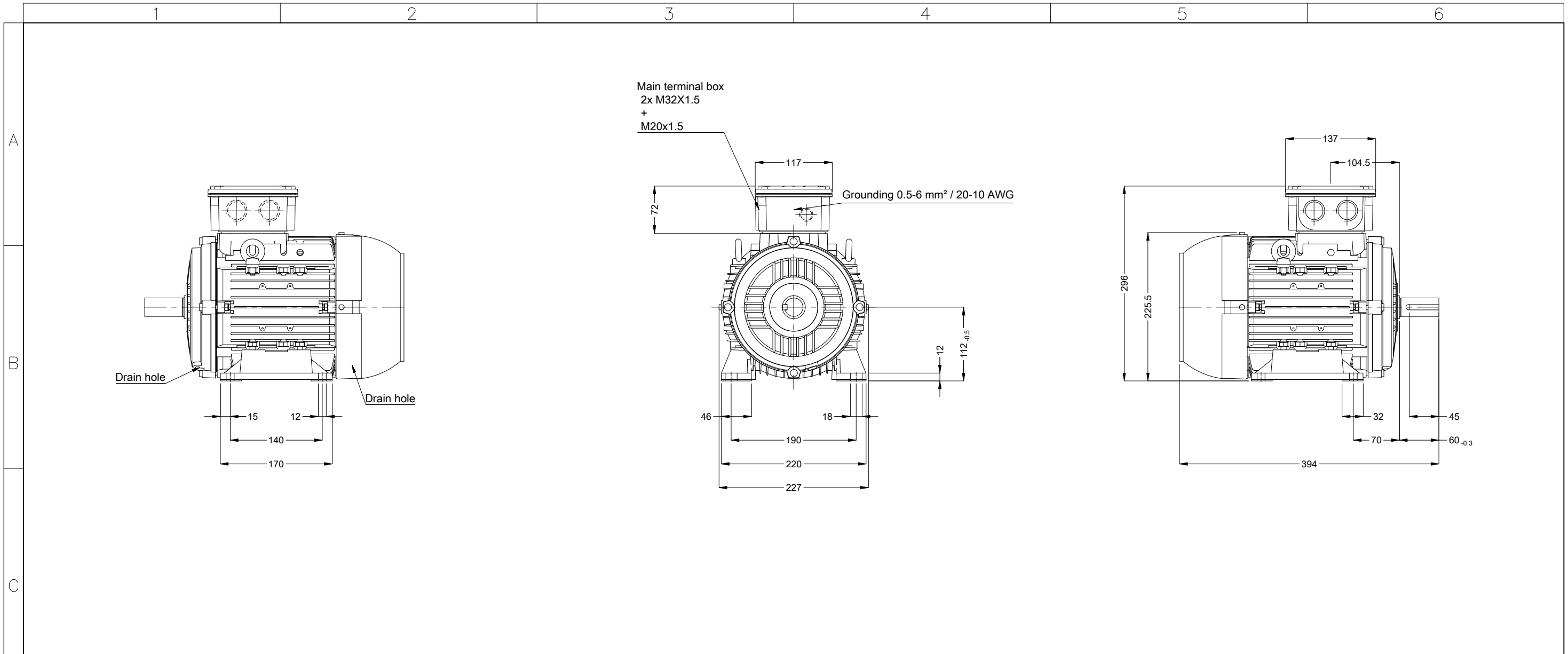


Customer : \_\_\_\_\_

### Thermal protection

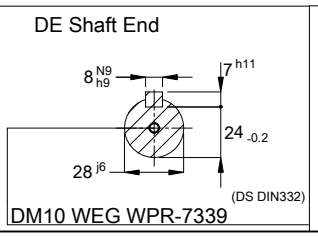
ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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				4 kW 02 Poles 50 Hz		A
				Scale		1 : 6
				HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF.				
CHECKED		FRAME 112M IP55 TEFC				
RELEASED						
REL. DATE						

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



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