

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : ASTRAPROM

Product line : Multimounting IE3 Three-Phase Product code : 12562183

Frame	: 180M/L	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 18.5 kW (25 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	: 35.2/20.4 A	Protection degree	: IP55
LRC	: 7.8	Cooling method	: IC411 - TEFC
Rated speed	: 1480 rpm	Mounting	: B3T
Rated torque	: 119 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 64.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 0.2088 kgm ²	Approx. weight ³	: 154 kg
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	92.0	92.6	Max. traction	: 4368 N
Power Factor	0.65	0.77	0.82	Max. compression	: 5882 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)
7.7	6.5	6.3	3.8	2.7	1.8	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 ZZ C3	6211 ZZ C3
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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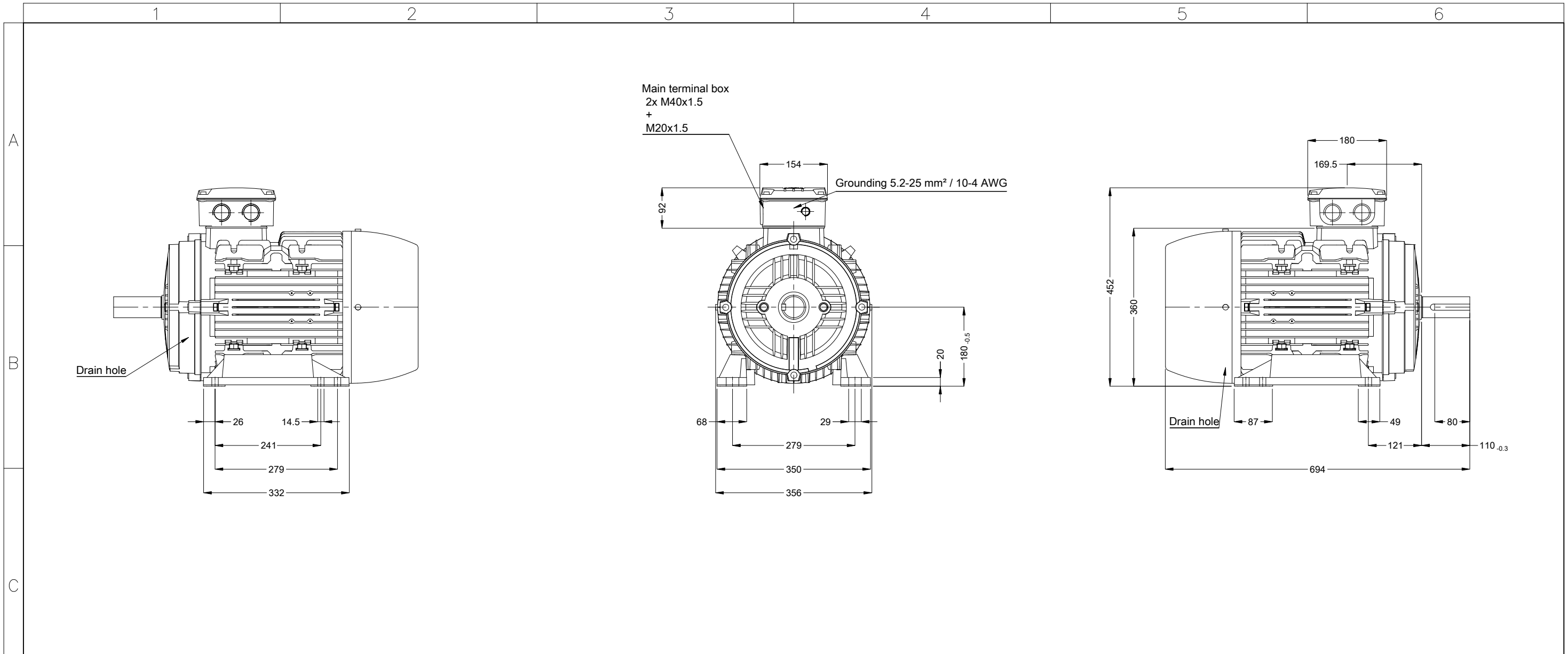
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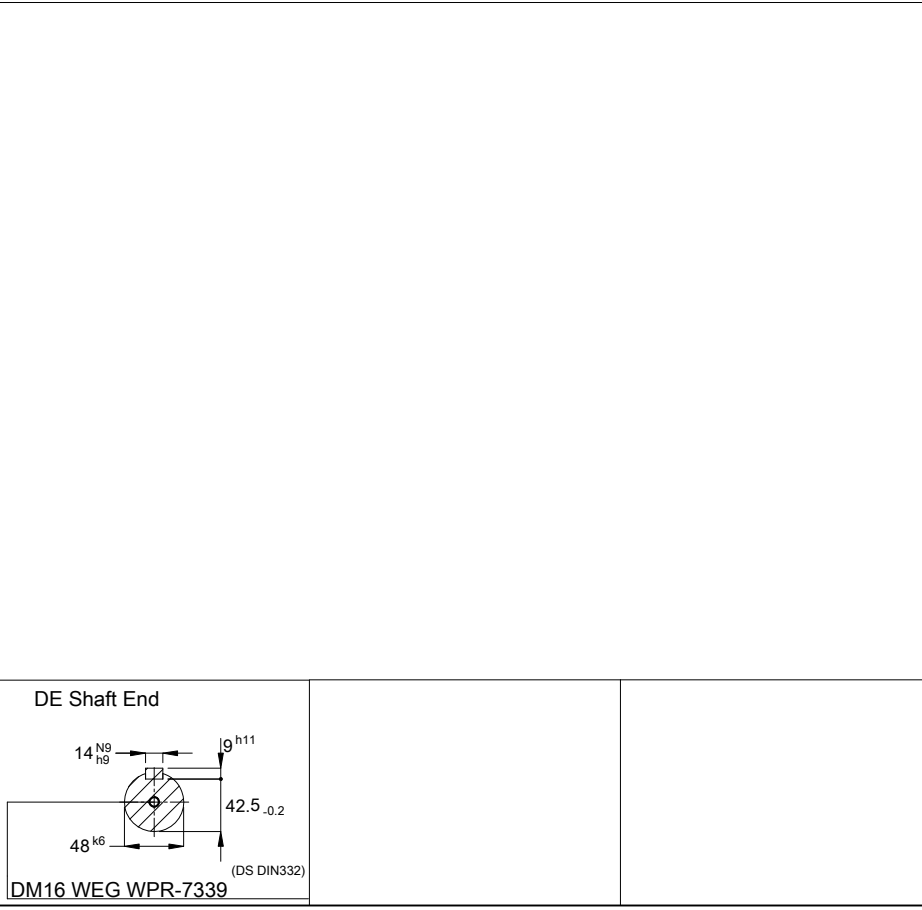
Thermal protection

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

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Color RAL 5009
 Painting plan 203A
 Mounting B3T



18.5 kW 04 Poles 50 Hz										A	
Scale 1 : 9											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF.					PREVIEW				
CHECKED		FRAME 180M/L IP55 TEFC					WDD	00			
RELEASED							SHEET	1 / 1			
REL. DATE											