

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: Multimounting IE3 Three-Phase		Product code : 13749704	
Frame	: 100L	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B14T		
Duty cycle	: S1	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 25.6 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0064 kgm <sup>2</sup>		
Design	: N				
Output [kW]	3	3	3	3	
Poles	2	2	2	2	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	10.3/5.95	10.2/5.85	10.1/5.84	5.13	
L. R. Amperes [A]	76.1/44.0	80.4/46.2	82.8/47.9	47.2	
LRC [A]	7.4	7.9	8.2	9.2	
No load current [A]	4.32/2.50	4.87/2.80	5.19/3.00	2.45	
Rated speed [RPM]	2895	2905	2915	3525	
Slip [%]	3.50	3.17	2.83	2.08	
Rated torque [Nm]	9.90	9.87	9.83	8.13	
Locked rotor torque [%]	229	250	280	300	
Breakdown torque [%]	290	330	360	440	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	19s (cold) 11s (hot)	
Noise level <sup>2</sup>	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	71.0 dB(A)	
Efficiency (%)	25%				
	50%	84.5	85.0	84.5	82.5
	75%	86.0	86.5	86.5	86.5
	100%	87.1	87.1	87.1	88.5
Power Factor	25%				
	50%	0.71	0.65	0.60	0.64
	75%	0.82	0.78	0.74	0.76
	100%	0.88	0.85	0.82	0.83
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	14.9	14.9	14.9	13.1
	P2 (0,5;1,0)	14.0	14.0	14.0	12.3
	P3 (0,25;1,0)	12.8	12.8	12.8	11.2
	P4 (0,9;0,5)	6.9	6.9	6.9	6.0
	P5 (0,5;0,5)	4.9	4.9	4.9	4.3
	P6 (0,5;0,25)	3.1	3.1	3.1	2.7
	P7 (0,25;0,25)	2.2	2.2	2.2	1.9
Bearing type	: Drive end 6206 ZZ Non drive end 6205 ZZ	Foundation loads			
Sealing	: Oil Seal Oil Seal	Max. traction : 768 N			
Lubrication interval	: - -	Max. compression : 1020 N			
Lubricant amount	: - -				
Lubricant type	: Mobil Polyrex EM				
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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Notes

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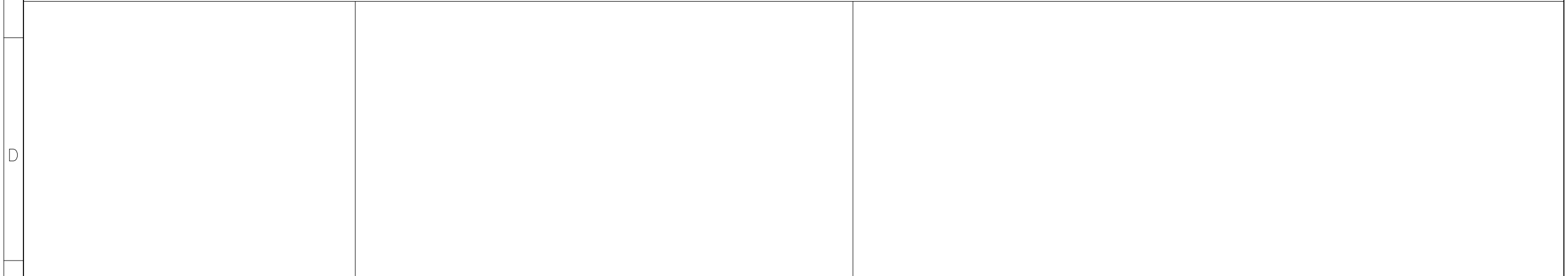
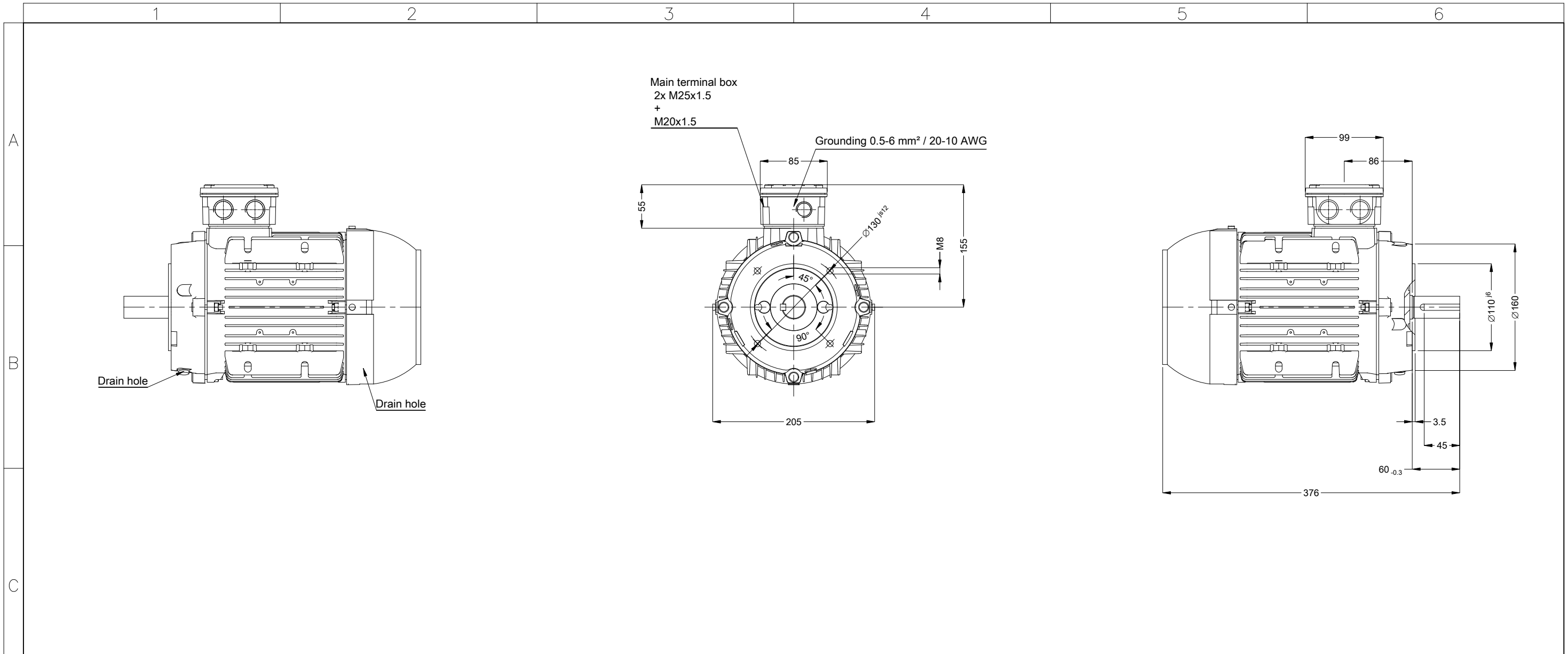
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### Thermal protection

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

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		3 kW 02 Poles 50 Hz		A					
				Scale 1 : 5					
				HYBRISUSER 00					
		ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
		EXECUTED	HYBRISUSER	THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF. FRAME 100L IP55 TEFC	PREVIEW				
		CHECKED			WDD	00			
		RELEASED			SHEET	1 / 1			
		REL. DATE							

- NDE sealing - lip seal
- Sealing - oil seal ring
- Bearing cap
- Thermal protection to switch off - thermistors 155°C
- Color RAL 5009
- Painting plan 207A
- Mounting B14T

