

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: Multimounting IE3 Three-Phase		Product code : 13096354	
Frame	: 100L	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B5T		
Duty cycle	: S1	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 30.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0143 kgm ²		
Design	: N				
Output [kW]	1.5	1.5	1.5		
Poles	6	6	6		
Frequency [Hz]	50	50	50		
Rated voltage [V]	220/380	230/400	240/415		
Rated current [A]	6.44/3.73	6.43/3.70	6.42/3.71		
L. R. Amperes [A]	35.4/20.5	35.4/20.4	35.3/20.4		
LRC [A]	5.5	5.5	5.5		
No load current [A]	3.87/2.24	4.30/2.47	4.63/2.68		
Rated speed [RPM]	945	950	955		
Slip [%]	5.50	5.00	4.50		
Rated torque [Nm]	15.2	15.1	15.0		
Locked rotor torque [%]	200	229	250		
Breakdown torque [%]	240	280	300		
Service factor	1.00	1.00	1.00		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	55s (cold) 31s (hot)	55s (cold) 31s (hot)	55s (cold) 31s (hot)		
Noise level ²	44.0 dB(A)	44.0 dB(A)	44.0 dB(A)		
Efficiency (%)	25%				
	50%	82.3	81.5	80.6	
	75%	82.6	82.5	82.3	
	100%	82.5	82.5	82.8	
Power Factor	25%				
	50%	0.53	0.49	0.46	
	75%	0.66	0.62	0.59	
	100%	0.74	0.71	0.68	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	20.5	20.5	20.1	
	P2 (0,5;1,0)	18.7	18.7	18.3	
	P3 (0,25;1,0)	18.8	18.8	18.5	
	P4 (0,9;0,5)	10.4	10.4	10.2	
	P5 (0,5;0,5)	8.1	8.1	7.9	
	P6 (0,5;0,25)	5.9	5.9	5.8	
	P7 (0,25;0,25)	4.6	4.6	4.5	
Bearing type	: Drive end 6206 ZZ	Non drive end 6205 ZZ	Foundation loads		
Sealing	: Oil Seal	Oil Seal	Max. traction : 976 N		
Lubrication interval	: -	-	Max. compression : 1274 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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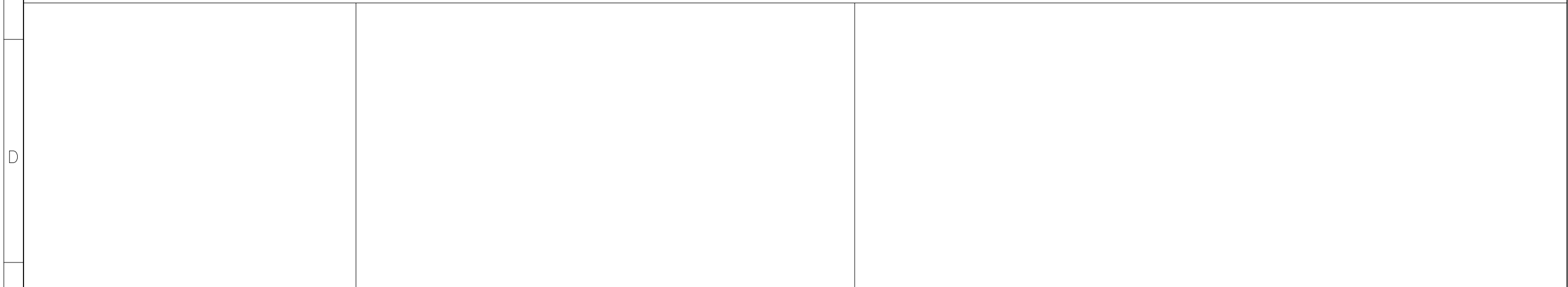
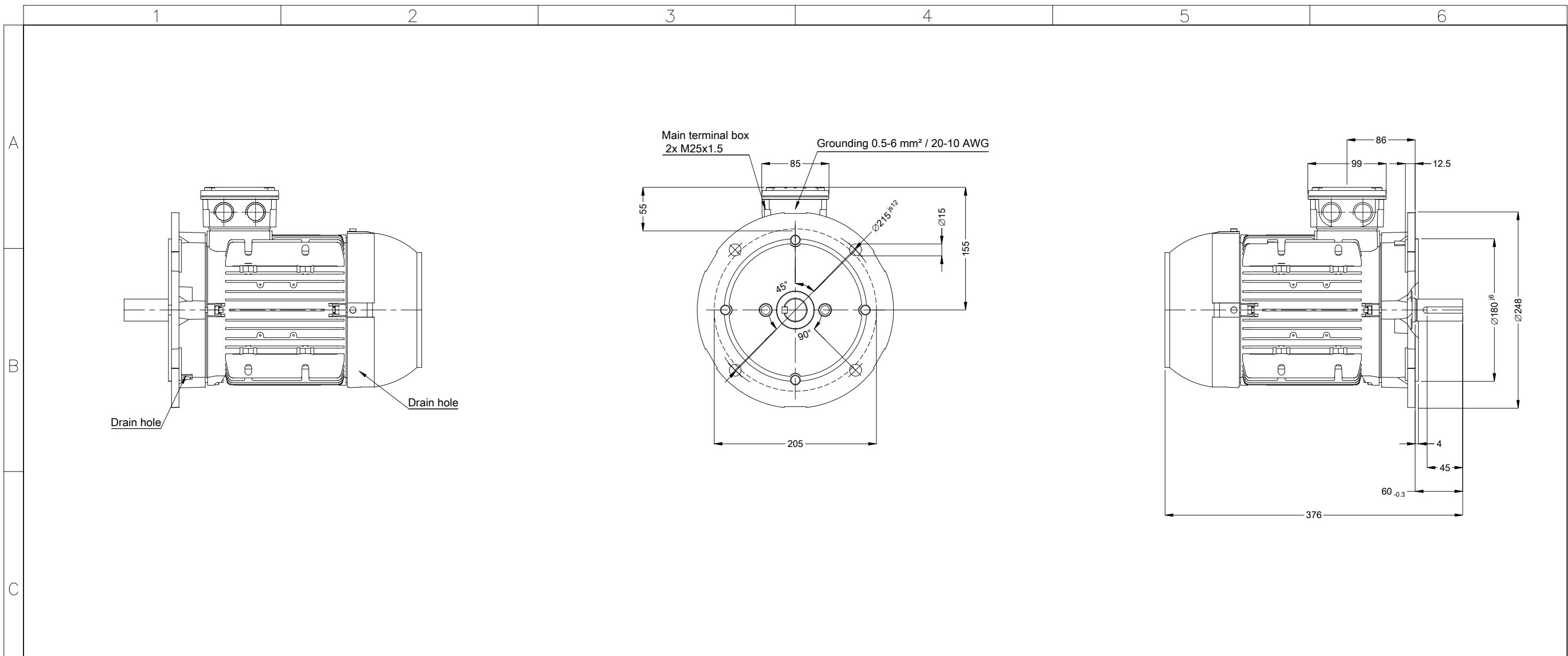
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Thermal protection

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

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		1.5 kW 06 Poles 50 Hz		A	
				Scale 1 : 5	
				HYBRISUSER 00	
		SUMMARY OF MODIFICATIONS		EXECUTED CHECKED RELEASED DATE VER	
ECM		LOC		EXECUTED	
EXECUTED		HYBRISUSER		THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF.	
CHECKED				FRAME 100L IP55 TEFC	
RELEASED				PREVIEW	
REL. DATE				WDD 00	
				SHEET 1 / 1	

- 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 B5T

