

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12868208	
Frame	: 100L	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B5T		
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>	: 35.1 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0090 kgm <sup>2</sup>		
Design	: N				
Output [kW]	2.2	2.2	2.2	2.2	2.2
Poles	4	4	4	4	4
Frequency [Hz]	50	50	50	50	60
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	8.22/4.76	8.03/4.62	7.89/4.56	4.06	
L. R. Amperes [A]	60.8/35.2	62.7/36.0	64.7/37.4	36.5	
LRC [A]	7.4	7.8	8.2	9.0	
No load current [A]	3.80/2.20	4.17/2.40	4.50/2.60	2.20	
Rated speed [RPM]	1430	1435	1440	1745	
Slip [%]	4.67	4.33	4.00	3.06	
Rated torque [Nm]	14.7	14.6	14.6	12.0	
Locked rotor torque [%]	310	350	380	409	
Breakdown torque [%]	290	340	370	400	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	30s (cold) 17s (hot)	
Noise level <sup>2</sup>	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	54.0 dB(A)	
Efficiency (%)	25%				
	50%	87.2	86.5	85.7	84.0
	75%	87.1	87.0	86.8	86.5
	100%	86.7	87.0	87.2	89.5
Power Factor	25%				
	50%	0.62	0.59	0.55	0.55
	75%	0.75	0.72	0.68	0.68
	100%	0.81	0.79	0.77	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	14.9	14.5	14.2	11.4
	P2 (0,5;1,0)	13.5	13.2	12.9	10.3
	P3 (0,25;1,0)	13.5	13.2	13.0	10.4
	P4 (0,9;0,5)	6.5	6.3	6.2	4.9
	P5 (0,5;0,5)	4.8	4.7	4.6	3.7
	P6 (0,5;0,25)	3.0	2.9	2.9	2.3
	P7 (0,25;0,25)	2.3	2.2	2.2	1.7
Bearing type	: Drive end 6206 ZZ Non drive end 6205 ZZ	Foundation loads			
Sealing	: Oil Seal Lip Seal	Max. traction : 1032 N			
Lubrication interval	: - -	Max. compression : 1376 N			
Lubricant amount	: - -				
Lubricant type	: 00088				
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.			
(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.					
Rev.	Changes Summary		Performed	Checked	Date
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Notes

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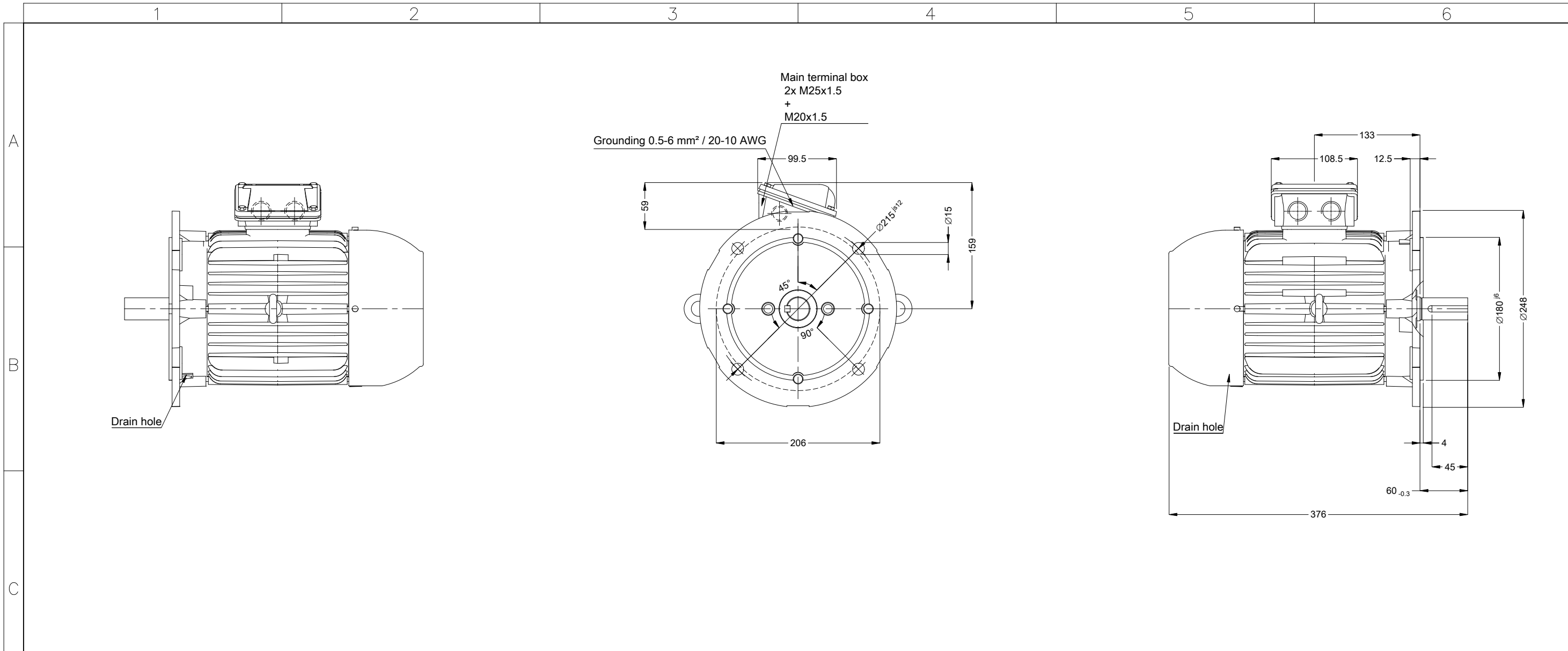
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### Thermal protection

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

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				2.2 kW 04 Poles 50 Hz		A				
				Scale		1 : 5				
				HYBRISUSER		00				
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3		PREVIEW				
		CHECKED		FRAME 100L IP55 TEFC		WDD		00		
		RELEASED				SHEET		1 / 1		
		REL. DATE								

- Sealing - oil seal ring
- Bearing cap
- Thermal protection to switch off - thermistors 155°C
- Color RAL 5009
- Painting plan 207A
- Mounting B5T

