

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12868257	
Frame	: 90S	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	: 22.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0060 kgm ²		
Design	: N				
Output [kW]	0.75	0.75	0.75	0.75	0.75
Poles	6	6	6	6	6
Frequency [Hz]	50	50	50	50	60
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	3.37/1.95	3.36/1.93	3.32/1.92	1.76	
L. R. Amperes [A]	16.8/9.75	17.5/10.0	17.9/10.4	10.9	
LRC [A]	5.0	5.2	5.4	6.2	
No load current [A]	1.90/1.10	2.09/1.20	2.25/1.30	1.20	
Rated speed [RPM]	945	950	955	1155	
Slip [%]	5.50	5.00	4.50	3.75	
Rated torque [Nm]	7.58	7.54	7.50	6.20	
Locked rotor torque [%]	220	260	290	300	
Breakdown torque [%]	220	250	270	310	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	55s (cold) 31s (hot)	55s (cold) 31s (hot)	45s (cold) 25s (hot)	52s (cold) 29s (hot)	
Noise level ²	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	50.0 dB(A)	
Efficiency (%)	25%				
	50%	77.5	76.5	75.3	77.0
	75%	78.0	78.8	78.6	80.0
	100%	78.9	78.9	78.9	82.5
Power Factor	25%				
	50%	0.53	0.49	0.46	0.43
	75%	0.66	0.62	0.59	0.56
	100%	0.74	0.71	0.69	0.65
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	26.0	26.0	26.0	20.6
	P2 (0,5;1,0)	24.6	24.6	24.6	19.5
	P3 (0,25;1,0)	25.8	25.8	25.8	20.5
	P4 (0,9;0,5)	13.2	13.2	13.2	10.5
	P5 (0,5;0,5)	10.5	10.5	10.5	8.3
	P6 (0,5;0,25)	7.8	7.8	7.8	6.2
	P7 (0,25;0,25)	6.1	6.1	6.1	4.9
Bearing type	: Drive end 6205 ZZ	Non drive end 6204 ZZ	Foundation loads		
Sealing	: Oil Seal	Lip Seal	Max. traction	: 440 N	
Lubrication interval	: -	-	Max. compression	: 658 N	
Lubricant amount	: -	-			
Lubricant type	: 00088				
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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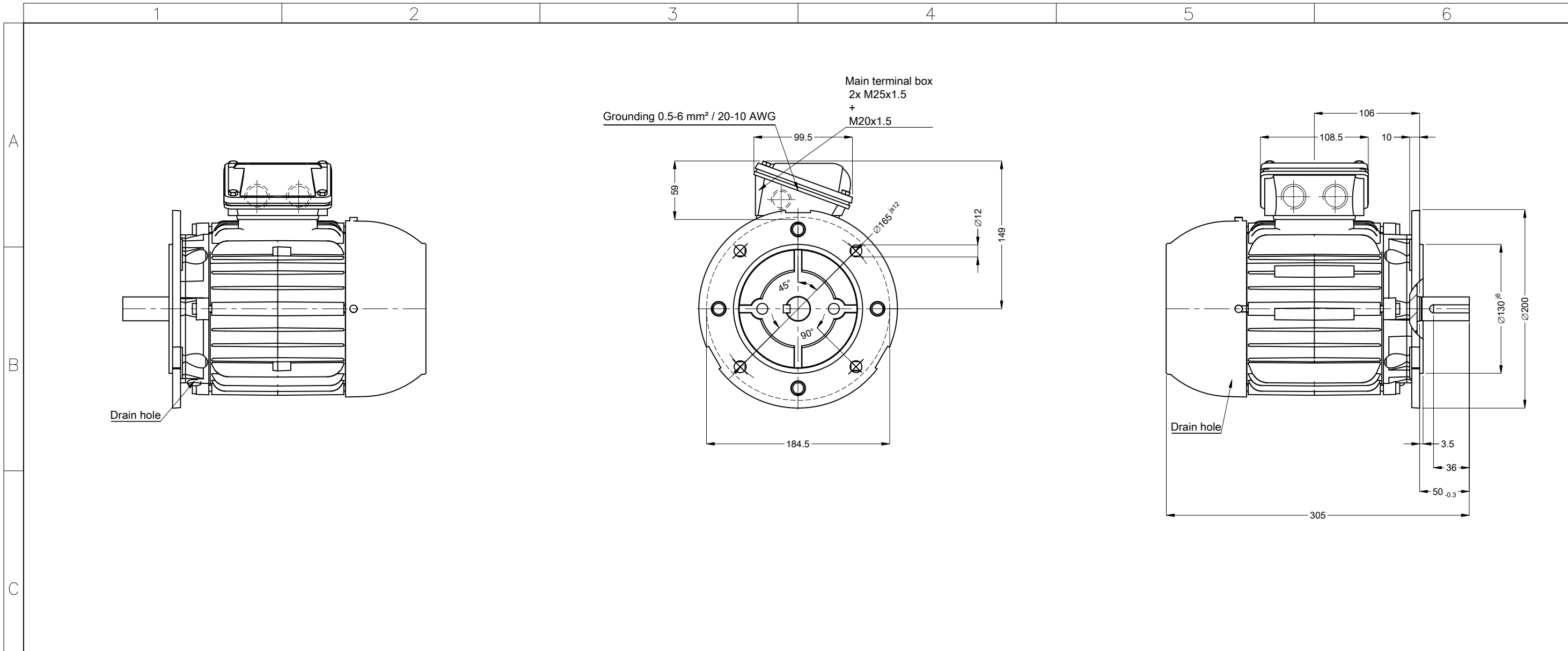
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Thermal protection

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

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				0.75 kW 06 Poles 50 Hz		A				
				Scale		1 : 4				
				HYBRISUSER		00				
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3		PREVIEW				
		CHECKED		FRAME 90S 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

