

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12868142	
Frame	: 71	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>	: 10.5 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0009 kgm <sup>2</sup>		
Design	: N				
Output [kW]	0.25	0.25	0.25	0.25	0.25
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]	1.26/0.730	1.27/0.730	1.28/0.740	0.660	
L. R. Amperes [A]	5.67/3.29	6.09/3.50	6.53/3.77	3.50	
LRC [A]	4.5	4.8	5.1	5.3	
No load current [A]	0.950/0.550	1.06/0.610	1.12/0.650	0.570	
Rated speed [RPM]	1400	1410	1415	1725	
Slip [%]	6.67	6.00	5.67	4.17	
Rated torque [Nm]	1.71	1.69	1.69	1.38	
Locked rotor torque [%]	220	250	260	280	
Breakdown torque [%]	220	250	260	320	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	
Noise level <sup>2</sup>	43.0 dB(A)	43.0 dB(A)	43.0 dB(A)	47.0 dB(A)	
Efficiency (%)	25%				
	50%	67.0	69.0	65.1	70.0
	75%	69.1	72.0	68.6	72.0
	100%	73.5	73.5	73.5	74.8
Power Factor	25%				
	50%	0.50	0.45	0.43	0.42
	75%	0.62	0.59	0.55	0.54
	100%	0.71	0.67	0.64	0.64
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	35.1	35.1	35.1	32.8
	P2 (0,5;1,0)	33.0	33.0	33.0	30.8
	P3 (0,25;1,0)	33.7	33.7	33.7	31.5
	P4 (0,9;0,5)	21.3	21.3	21.3	19.9
	P5 (0,5;0,5)	16.6	16.6	16.6	15.5
	P6 (0,5;0,25)	14.0	14.0	14.0	13.1
	P7 (0,25;0,25)	10.5	10.5	10.5	9.9
Bearing type	: Drive end : 6202 ZZ	Non drive end : 6202 ZZ	Foundation loads		
Sealing	: Oil Seal	Lip Seal	Max. traction	: 106 N	
Lubrication interval	: -	-	Max. compression	: 209 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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/04/2026			1 / 3	

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : ASTRAPROM

Notes

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/04/2026		2 / 3	

# DATA SHEET



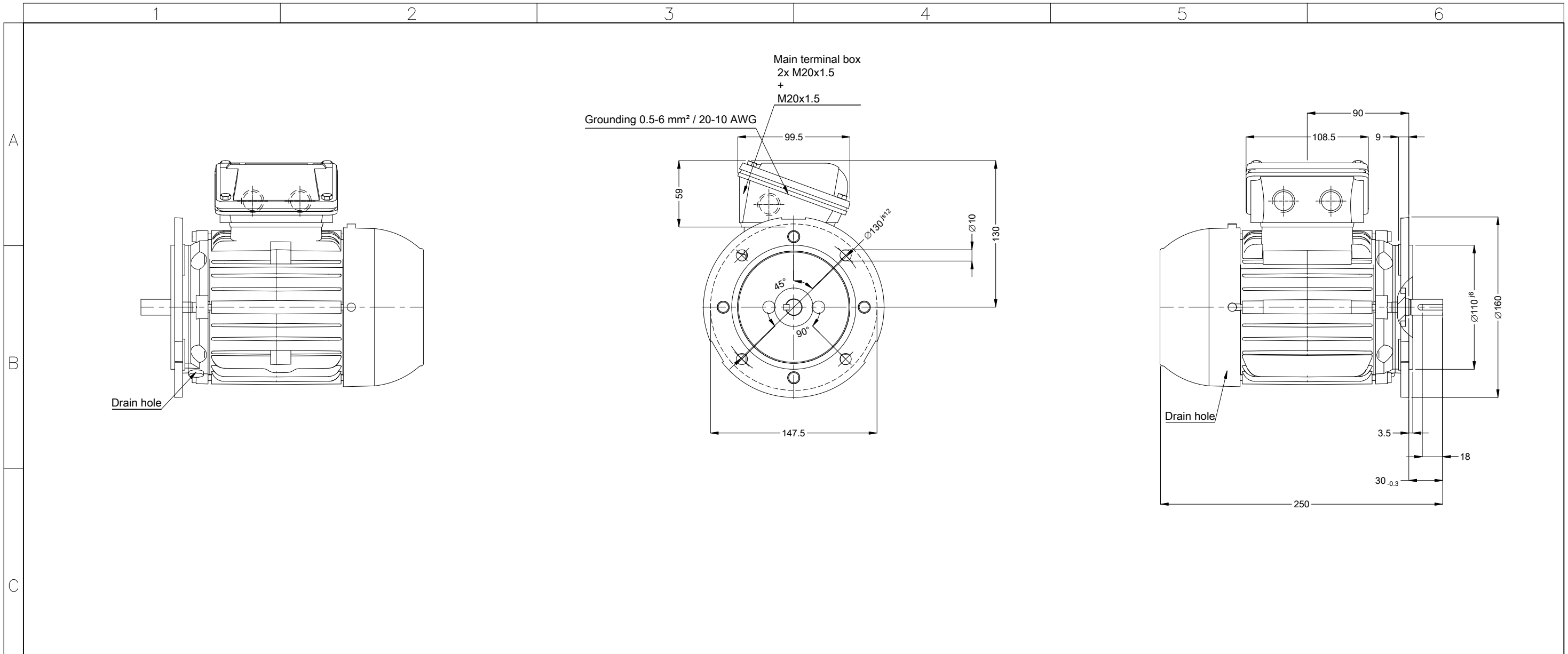
## Three Phase Induction Motor - Squirrel Cage

Customer : ASTRAPROM

### Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 3 / 3
Checked by				
Date	17/04/2026			
				Revision



				0.25 kW 04 Poles 50 Hz		A				
				Scale		2 : 7				
				HYBRISUSER		00				
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3		PREVIEW				
		CHECKED		FRAME 71 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

