

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12883084	
Frame	: 132S	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	: 68.9 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0491 kgm ²		
Design	: N				
Output [kW]	5.5	5.5	5.5	5.5	5.5
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]	19.2/11.1	18.8/10.8	18.4/10.7	9.18	
L. R. Amperes [A]	144/83.2	156/89.6	162/94.2	84.5	
LRC [A]	7.5	8.3	8.8	9.2	
No load current [A]	6.91/4.00	7.82/4.50	9.00/5.00	4.50	
Rated speed [RPM]	1460	1460	1465	1770	
Slip [%]	2.67	2.67	2.33	1.67	
Rated torque [Nm]	36.0	36.0	35.9	34.2	
Locked rotor torque [%]	210	229	250	250	
Breakdown torque [%]	280	310	340	370	
Service factor	1.00	1.00	1.00	1.25	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	25s (cold) 14s (hot)	
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	58.0 dB(A)	
Efficiency (%)	25%	0.000	0.000	0.000	0.000
	50%	89.0	89.0	88.5	90.2
	75%	89.6	89.6	89.6	91.0
	100%	89.6	89.7	89.8	91.7
Power Factor	25%	0.00	0.00	0.00	0.00
	50%	0.70	0.66	0.61	0.60
	75%	0.81	0.76	0.70	0.70
	100%	0.84	0.82	0.80	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	11.3	11.2	11.1	8.8
	P2 (0,5;1,0)	9.8	9.6	9.5	7.6
	P3 (0,25;1,0)	9.3	9.2	9.1	7.3
	P4 (0,9;0,5)	5.6	5.5	5.5	4.4
	P5 (0,5;0,5)	4.0	3.9	3.9	3.1
	P6 (0,5;0,25)	2.8	2.7	2.7	2.1
	P7 (0,25;0,25)	1.9	1.9	1.9	1.5
Bearing type	: Drive end 6308 ZZ	Non drive end 6207 ZZ	Foundation loads		
Sealing	: Oil Seal	Lip Seal	Max. traction	: 1696 N	
Lubrication interval	: 0 h	0 h	Max. compression	: 2372 N	
Lubricant amount	: 0 g	0 g			
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	27/03/2026			1 / 3	

DATA SHEET

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Notes

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	27/03/2026		2 / 3	

DATA SHEET



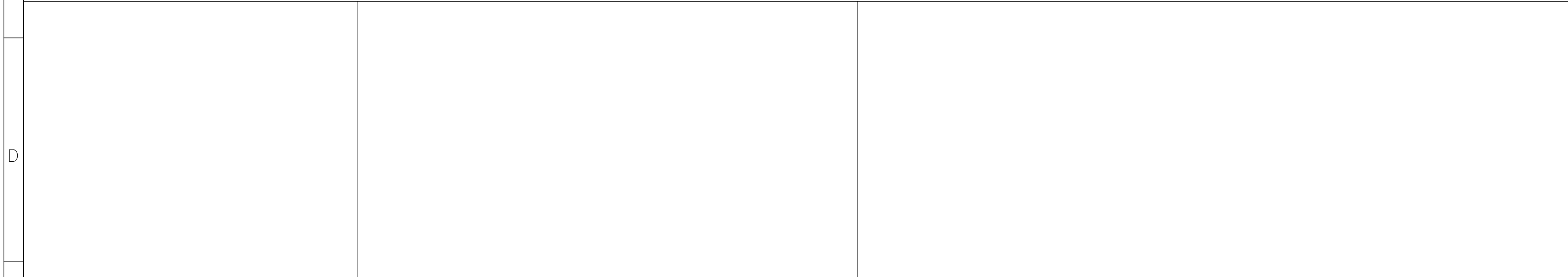
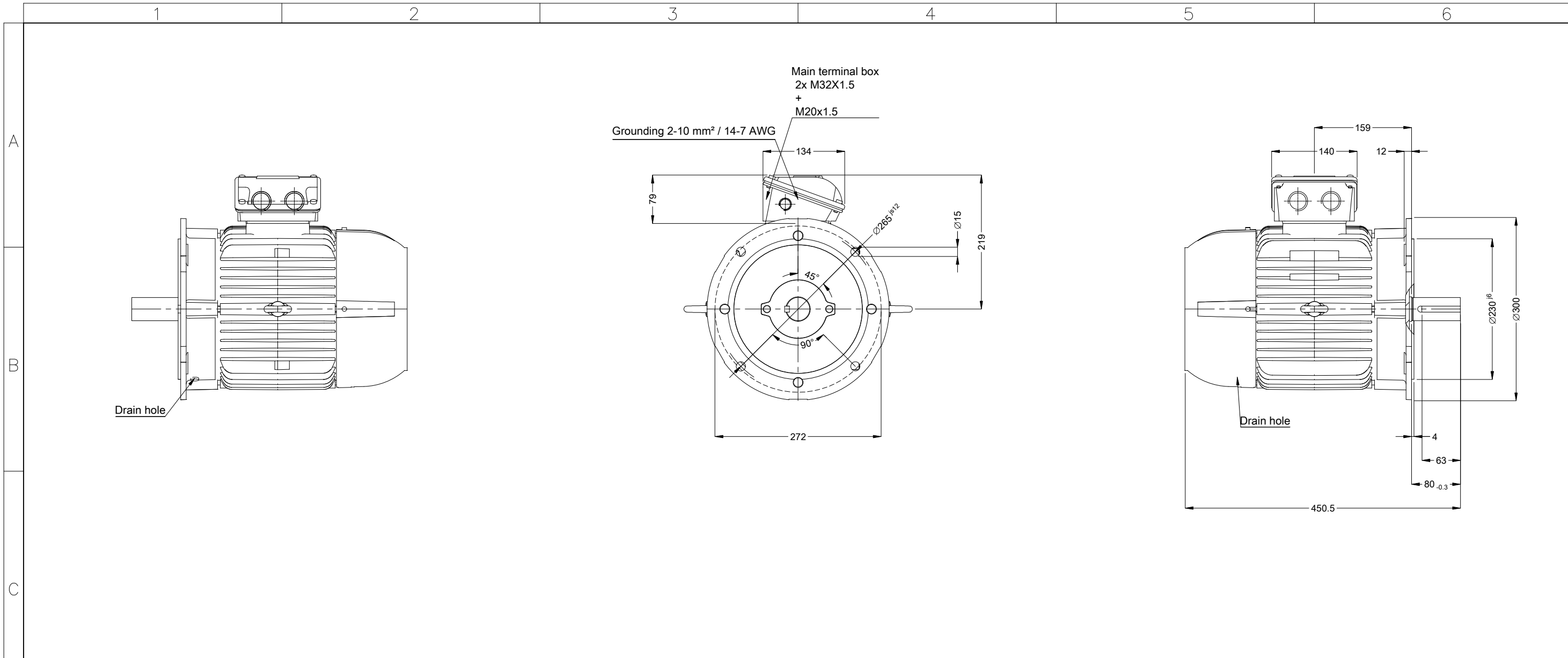
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Thermal protection

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	27/03/2026			
				Revision



		5.5 kW 04 Poles 50 Hz		A									
				Scale 2 : 13									
				HYBRISUSER 00									
		ECM	LOC	SUMMARY OF MODIFICATIONS									
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3									
		CHECKED		FRAME 132S IP55 TEFC									
		RELEASED											
		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 B5T		DE Shaft End DM12 WEG WPR-7339		<table border="1"> <tr> <td colspan="2">PREVIEW</td> <td rowspan="2"></td> </tr> <tr> <td>WDD</td> <td>00</td> </tr> <tr> <td colspan="2">SHEET 1 / 1</td> <td></td> </tr> </table>		PREVIEW			WDD	00	SHEET 1 / 1		
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WDD	00												
SHEET 1 / 1													