

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12868212	
Frame	: 112M	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	: 46.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0180 kgm ²		
Design	: N				
Output [kW]	4	4	4	4	4
Poles	4	4	4	4	4
Frequency [Hz]	50	50	50	50	60
Rated voltage [V]	380/660	400/690	415	460	460
Rated current [A]	8.68/5.00	8.69/5.04	8.72	7.68	7.68
L. R. Amperes [A]	60.8/35.0	65.2/37.8	69.8	65.3	65.3
LRC [A]	7.0	7.5	8.0	8.5	8.5
No load current [A]	4.40/2.53	5.00/2.90	5.60	4.50	4.50
Rated speed [RPM]	1445	1450	1455	1760	1760
Slip [%]	3.67	3.33	3.00	2.22	2.22
Rated torque [Nm]	26.4	26.4	26.3	21.7	21.7
Locked rotor torque [%]	250	290	320	320	320
Breakdown torque [%]	280	320	350	380	380
Service factor	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%				
	50%	87.5	87.5	86.5	87.5
	75%	88.2	88.2	88.2	89.5
	100%	88.6	88.6	88.6	89.5
Power Factor	25%				
	50%	0.62	0.53	0.50	0.50
	75%	0.71	0.69	0.63	0.63
	100%	0.79	0.75	0.72	0.73
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	10.6	10.6	10.5	11.5
	P2 (0,5;1,0)	8.1	8.1	8.0	8.8
	P3 (0,25;1,0)	7.1	7.1	7.0	7.7
	P4 (0,9;0,5)	6.9	6.9	6.8	7.5
	P5 (0,5;0,5)	4.6	4.6	4.6	5.0
	P6 (0,5;0,25)	3.8	3.8	3.8	4.2
	P7 (0,25;0,25)	2.7	2.7	2.7	3.0
Bearing type	: Drive end : 6207 ZZ	Non drive end : 6206 ZZ	Foundation loads		
Sealing	: Oil Seal	Lip Seal	Max. traction : 1510 N		
Lubrication interval	: -	-	Max. compression : 1964 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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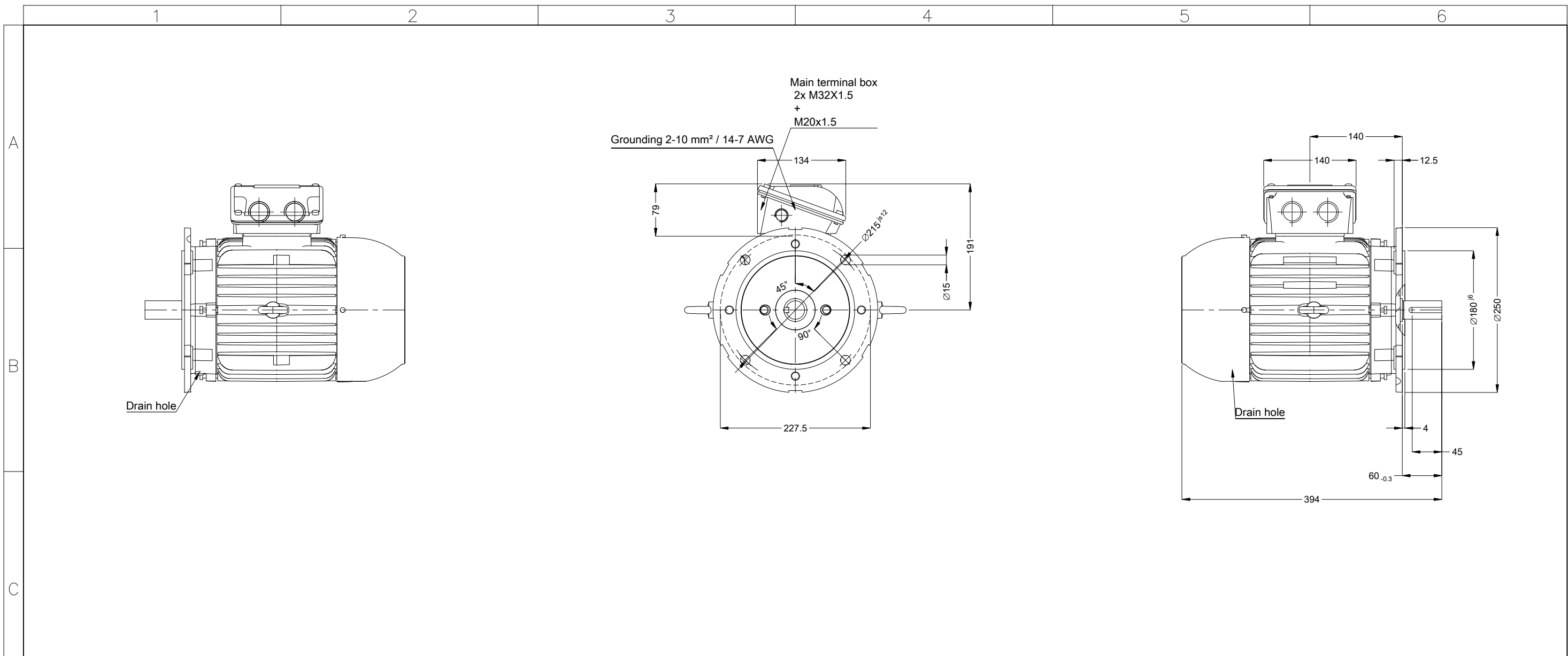
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Thermal protection

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

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D			4 kW 04 Poles 50 Hz		A					
			Scale 1 : 6							
E	Sealing - oil seal ring	DE Shaft End DM10 WEG WPR-7339			HYBRISUSER	00				
	Bearing cap		ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
	Thermal protection to switch off - thermistors 155°C		EXECUTED	HYBRISUSER	 THREE PH. MOTOR W22 IE3 FRAME 112M IP55 TEFC	PREVIEW WDD 00				
	Color RAL 5009		CHECKED			SHEET 1 / 1				
Painting plan 207A	RELEASED									
Mounting B5T	REL. DATE									