

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12867405	
Frame	: 71	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B3T		
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	: 10.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0009 kgm ²		
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 ²	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	: V'Ring	V'Ring	Max. traction	: 107 N	
Lubrication interval	: -	-	Max. compression	: 208 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
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Notes

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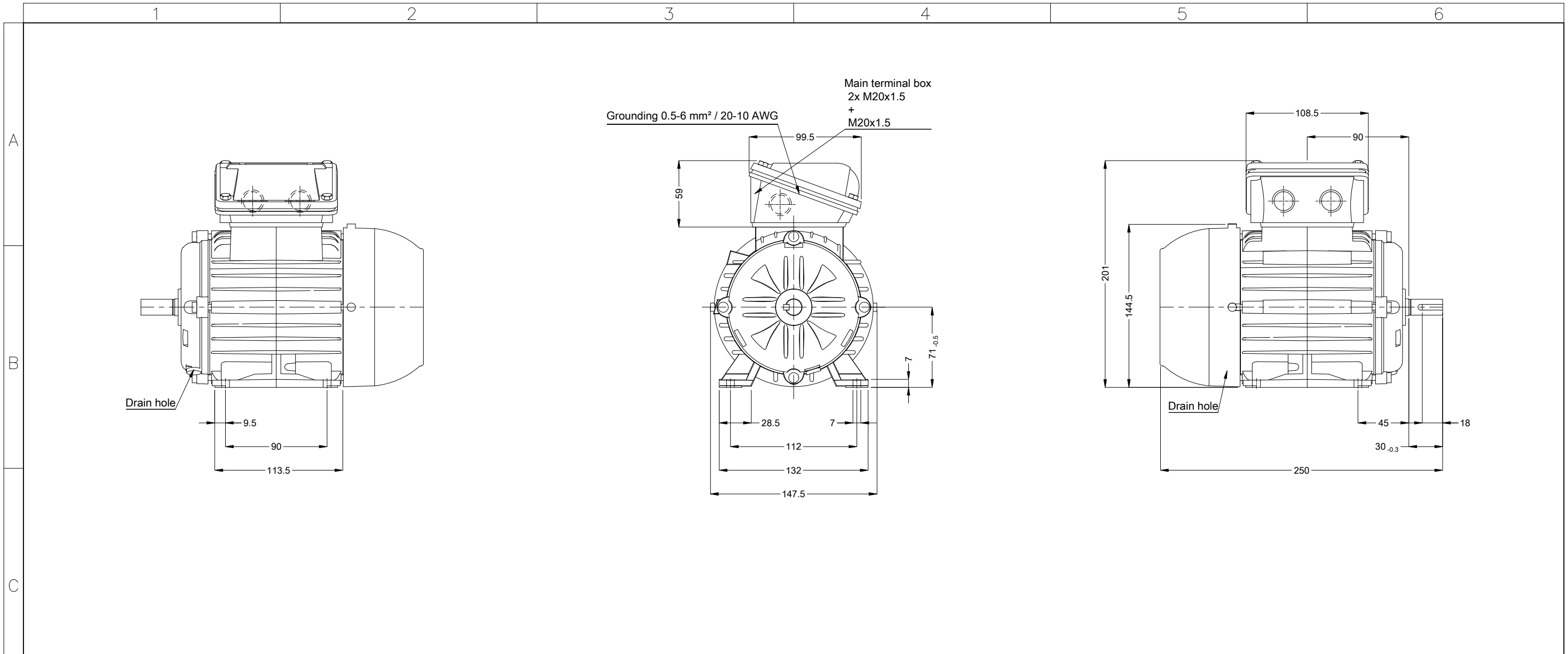
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Thermal protection

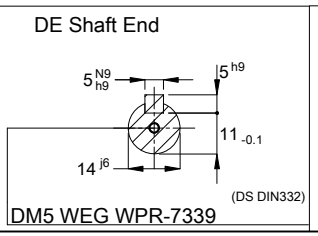
ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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				Revision



				0.25 kW 04 Poles 50 Hz		A
				Scale		2 : 7
				HYBRISUSER		00
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3		CHECKED
		CHECKED		FRAME 71 IP55 TEFC		RELEASED
		RELEASED				DATE
		REL. DATE				VER

Thermal protection to switch off - thermistors 155°C
 Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-3
 Mounting B3T



EXECUTED		HYBRISUSER			PREVIEW	
CHECKED					WDD	00
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