

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: Multimounting IE3 Three-Phase		Product code : 13749657	
Frame	: 80	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	: 13.9 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0020 kgm ²		
Design	: N				
Output [kW]	0.55	0.55	0.55	0.55	0.55
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]	2.18/1.26	2.16/1.24	2.13/1.23	1.12	
L. R. Amperes [A]	13.1/7.56	14.0/8.06	14.7/8.49	8.51	
LRC [A]	6.0	6.5	6.9	7.6	
No load current [A]	1.05/0.610	1.18/0.680	1.26/0.730	0.620	
Rated speed [RPM]	1435	1440	1445	1750	
Slip [%]	4.33	4.00	3.67	2.78	
Rated torque [Nm]	3.68	3.66	3.64	3.01	
Locked rotor torque [%]	210	229	250	290	
Breakdown torque [%]	240	270	300	360	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	50s (cold) 28s (hot)	45s (cold) 25s (hot)	41s (cold) 23s (hot)	45s (cold) 25s (hot)	
Noise level ²	44.0 dB(A)	44.0 dB(A)	44.0 dB(A)	48.0 dB(A)	
Efficiency (%)	25%				
	50%	78.0	77.0	76.0	73.6
	75%	79.1	79.0	78.9	77.8
	100%	80.8	80.8	80.8	81.1
Power Factor	25%				
	50%	0.63	0.58	0.55	0.56
	75%	0.75	0.72	0.68	0.69
	100%	0.82	0.79	0.77	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	23.6	23.6	23.6	23.1
	P2 (0,5;1,0)	21.5	21.5	21.5	21.1
	P3 (0,25;1,0)	19.8	19.8	19.8	19.4
	P4 (0,9;0,5)	12.4	12.4	12.4	12.1
	P5 (0,5;0,5)	8.8	8.8	8.8	8.6
	P6 (0,5;0,25)	6.4	6.4	6.4	6.3
	P7 (0,25;0,25)	4.6	4.6	4.6	4.5
Bearing type	: Drive end : 6204 ZZ	Non drive end : 6203 ZZ	Foundation loads		
Sealing	: Oil Seal	Oil Seal	Max. traction	: 277 N	
Lubrication interval	: -	-	Max. compression	: 414 N	
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
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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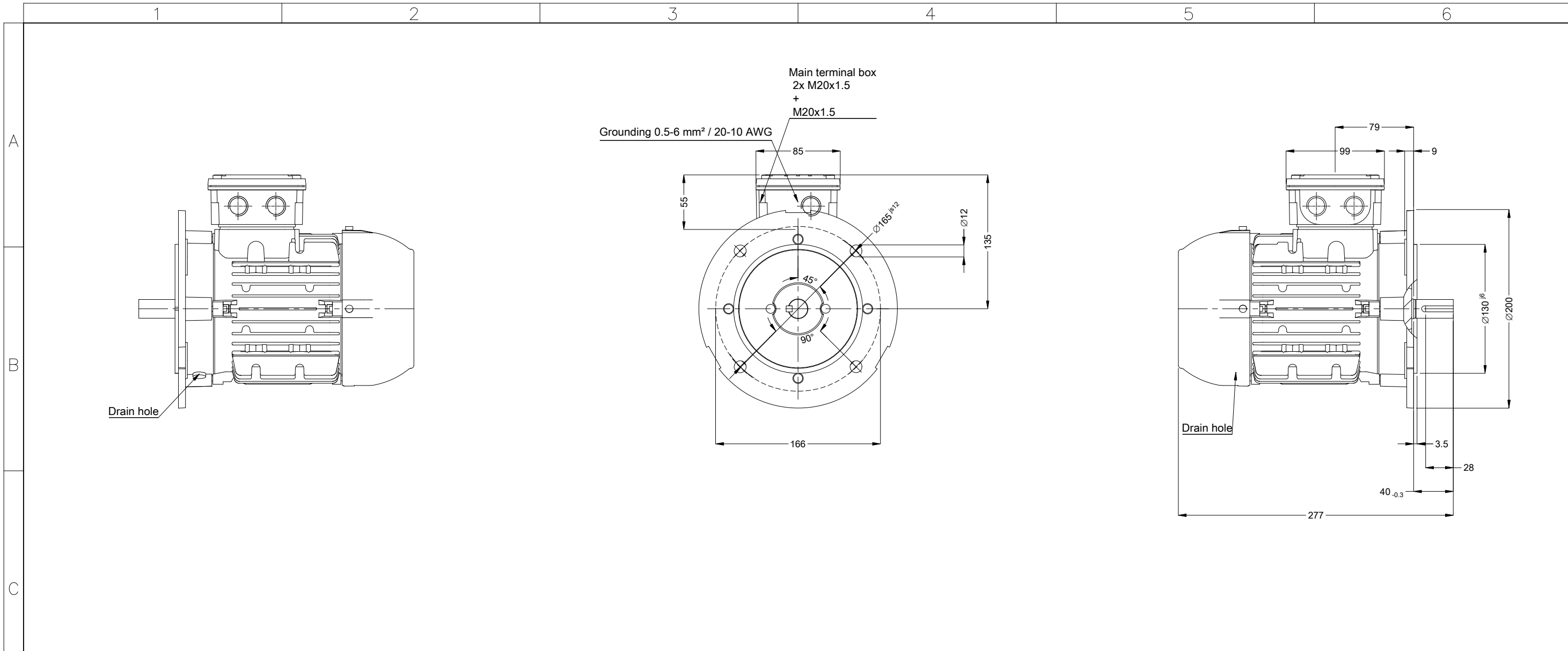
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Thermal protection

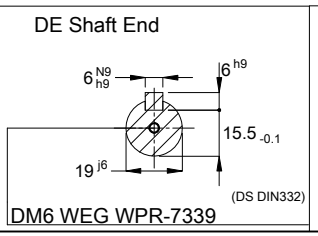
ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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D			0.55 kW 04 Poles 50 Hz		A
			Scale 1 : 4		

E	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



ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF.				
CHECKED		FRAME 80 IP55 TEFC					
RELEASED							
REL. DATE							

HYBRISUSER		00
PREVIEW		
WDD	00	
SHEET	1 / 1	

Dimensions in mm

A3