

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: Multimounting IE3 Three-Phase		Product code : 13094846	
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	: 11.9 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0008 kgm ²		
Design	: N				
Output [kW]	0.75	0.75	0.75	0.75	0.75
Poles	2	2	2	2	2
Frequency [Hz]	50	50	50	50	60
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	2.87/1.66	2.83/1.63	2.82/1.63	1.43	
L. R. Amperes [A]	21.5/12.5	21.3/12.2	21.1/12.2	11.4	
LRC [A]	7.5	7.5	7.5	8.0	
No load current [A]	1.47/0.850	1.67/0.960	1.87/1.08	0.880	
Rated speed [RPM]	2855	2870	2880	3490	
Slip [%]	4.83	4.33	4.00	3.06	
Rated torque [Nm]	2.51	2.50	2.49	2.05	
Locked rotor torque [%]	300	330	360	400	
Breakdown torque [%]	310	340	370	440	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	57s (cold) 32s (hot)	
Noise level ²	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	
Efficiency (%)	25%				
	50%	80.0	80.0	79.1	75.5
	75%	80.5	82.0	81.0	80.0
	100%	80.7	81.0	81.1	81.5
Power Factor	25%				
	50%	0.66	0.61	0.57	0.59
	75%	0.78	0.74	0.71	0.71
	100%	0.85	0.82	0.79	0.81
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	22.9	22.5	22.3	21.7
	P2 (0,5;1,0)	19.8	19.4	19.3	18.8
	P3 (0,25;1,0)	19.4	19.0	18.9	18.4
	P4 (0,9;0,5)	12.7	12.4	12.3	12.0
	P5 (0,5;0,5)	8.4	8.3	8.2	8.0
	P6 (0,5;0,25)	6.2	6.1	6.0	5.9
	P7 (0,25;0,25)	4.3	4.2	4.2	4.1
Bearing type	: Drive end 6204 ZZ	Non drive end 6203 ZZ	Foundation loads		
Sealing	: Oil Seal	Oil Seal	Max. traction	: 230 N	
Lubrication interval	: -	-	Max. compression	: 347 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.		
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Notes

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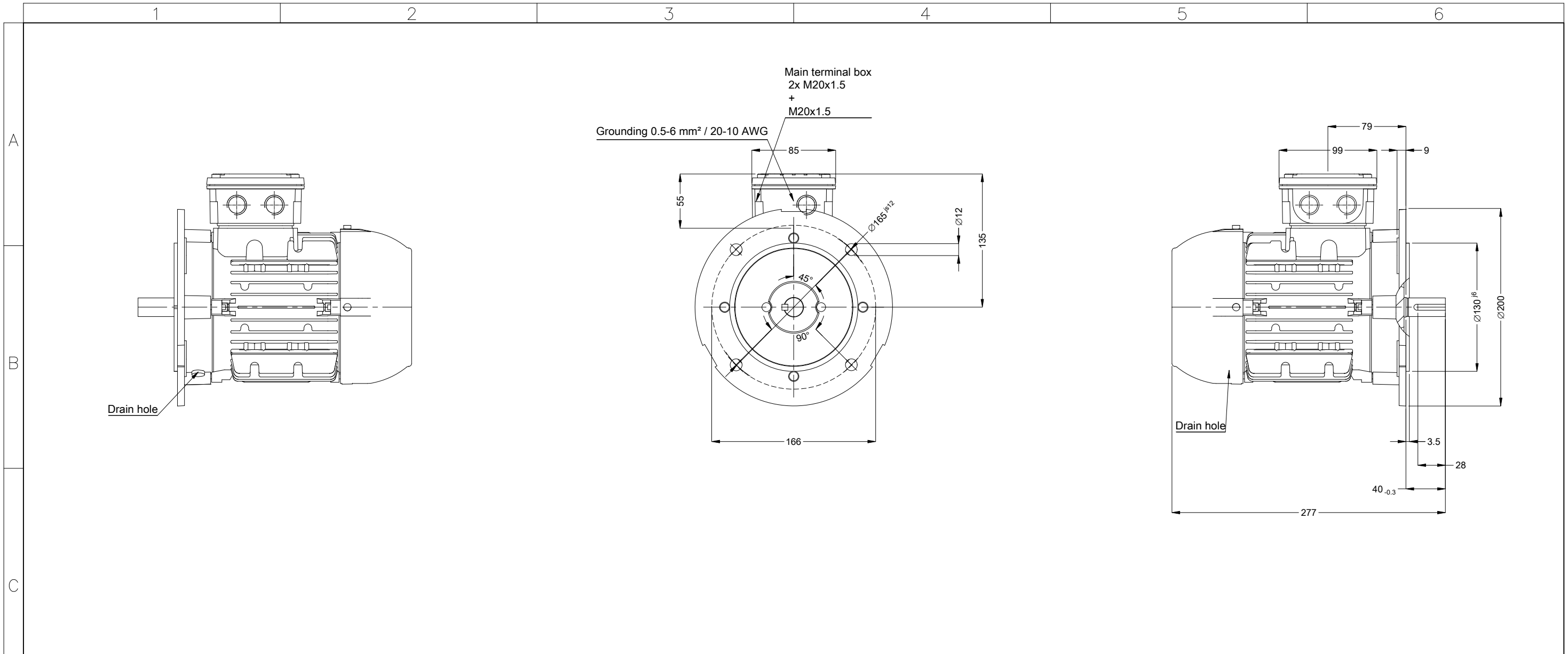
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Thermal protection

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

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1
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A
B
C
D

- 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

DM6 WEG WPR-7339

0.75 kW		02 Poles	50 Hz	A
Scale 1 : 4				
			HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF.		
CHECKED		FRAME 80 IP55 TEFC		
RELEASED				
REL. DATE				

PREVIEW		
WDD	00	
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