

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12868145	
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	: 17.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0032 kgm ²		
Design	: N				
Output [kW]	0.75	0.75	0.75	0.75	0.75
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]	2.90/1.68	2.92/1.68	2.87/1.66	1.47	
L. R. Amperes [A]	19.4/11.3	20.5/11.8	21.0/12.1	12.5	
LRC [A]	6.7	7.0	7.3	8.5	
No load current [A]	1.73/1.00	1.91/1.10	2.08/1.20	1.00	
Rated speed [RPM]	1430	1435	1440	1745	
Slip [%]	4.67	4.33	4.00	3.06	
Rated torque [Nm]	5.01	4.99	4.98	4.11	
Locked rotor torque [%]	330	360	390	440	
Breakdown torque [%]	330	360	390	440	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)	
Noise level ²	44.0 dB(A)	44.0 dB(A)	44.0 dB(A)	48.0 dB(A)	
Efficiency (%)	25%				
	50%	79.0	78.0	77.0	78.5
	75%	81.5	81.0	81.0	80.0
	100%	82.5	82.5	82.5	84.0
Power Factor	25%				
	50%	0.59	0.54	0.50	0.55
	75%	0.73	0.68	0.65	0.68
	100%	0.82	0.78	0.76	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	20.6	20.6	20.6	18.5
	P2 (0,5;1,0)	18.1	18.1	18.1	16.3
	P3 (0,25;1,0)	17.4	17.4	17.4	15.6
	P4 (0,9;0,5)	11.1	11.1	11.1	10.0
	P5 (0,5;0,5)	7.8	7.8	7.8	7.0
	P6 (0,5;0,25)	5.8	5.8	5.8	5.2
	P7 (0,25;0,25)	4.1	4.1	4.1	3.7
Bearing type	: 6204	6203 ZZ	Foundation loads		
Sealing	: Oil Seal	Lip Seal	Max. traction	: 493 N	
Lubrication interval	: 20000 h	40000 h	Max. compression	: 663 N	
Lubricant amount	: 3 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.		
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Notes

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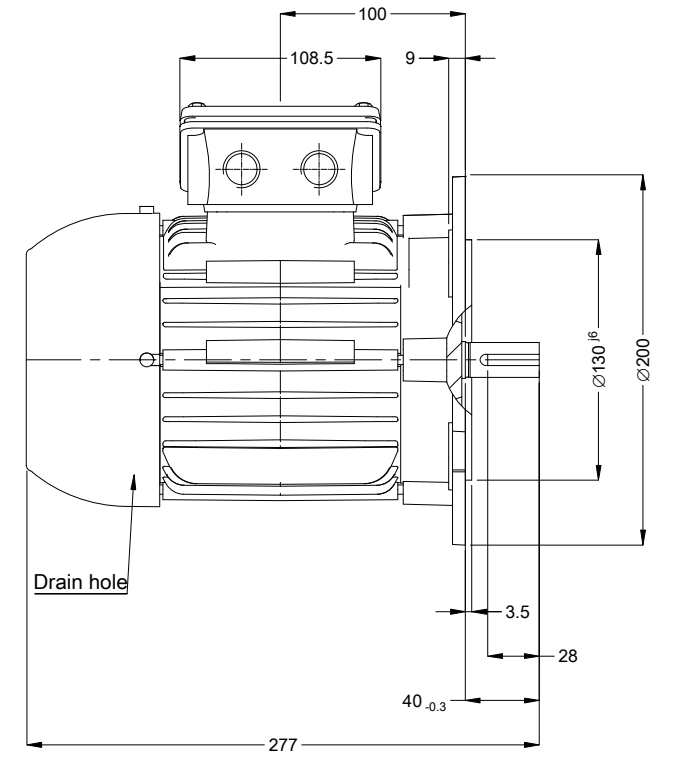
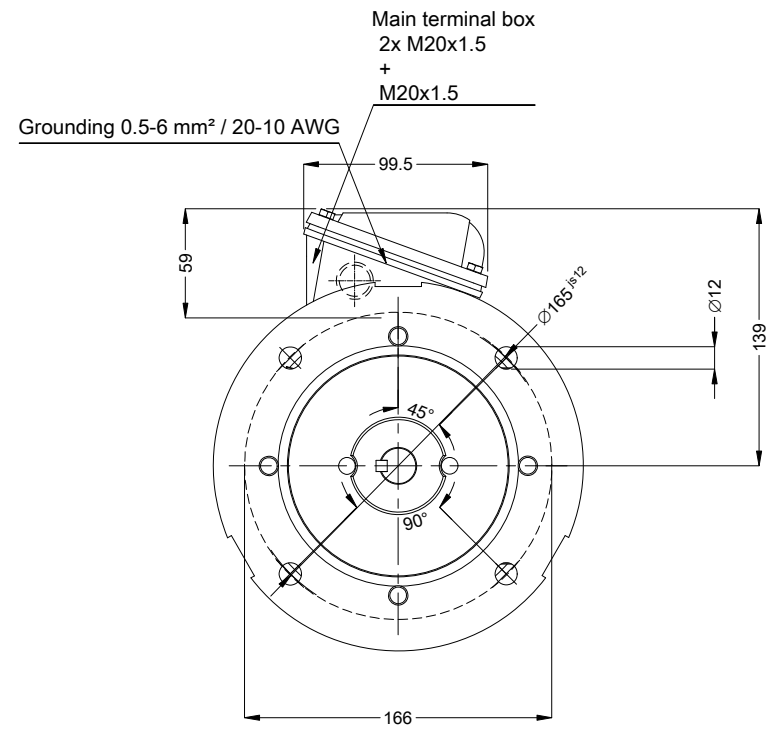
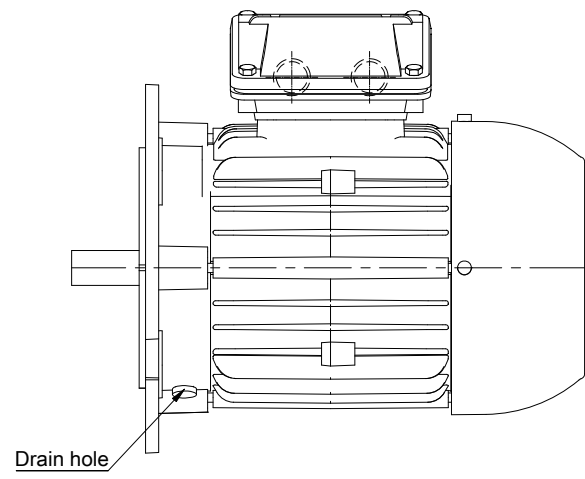
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Thermal protection

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

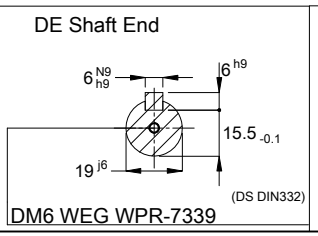
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A
B
C

D

E	Sealing - oil seal ring
	Bearing cap
	Thermal protection to switch off - thermistors 155°C
	Color RAL 5009
	Painting plan 207A
	Mounting B5T



0.75 kW 04 Poles 50 Hz					A		
Scale 1 : 4							
HYBRISUSER			00				
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3					
CHECKED		FRAME 80 IP55 TEFC					
RELEASED							
REL. DATE							
PREVIEW			WDD 00		SHEET 1 / 1		
WEG							