

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: ASTRAPROM			
Product line		: W22 IE3 Three-Phase		Product code : 12868211	
Frame	: L100L	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	: 41.7 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0120 kgm ²		
Design	: N				
Output [kW]	3	3	3	3	
Poles	4	4	4	4	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	11.2/6.50	11.0/6.33	11.0/6.35	5.54	
L. R. Amperes [A]	87.6/50.7	89.2/51.3	92.2/53.3	53.2	
LRC [A]	7.8	8.1	8.4	9.6	
No load current [A]	5.35/3.10	6.09/3.50	6.57/3.80	3.20	
Rated speed [RPM]	1430	1440	1445	1745	
Slip [%]	4.67	4.00	3.67	3.06	
Rated torque [Nm]	20.0	19.9	19.8	16.4	
Locked rotor torque [%]	360	409	459	450	
Breakdown torque [%]	320	370	400	400	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	
Noise level ²	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	54.0 dB(A)	
Efficiency (%)	25%	0.000	0.000	0.000	
	50%	87.7	87.0	86.3	84.0
	75%	88.0	88.0	87.7	86.5
	100%	87.7	87.7	87.7	89.5
Power Factor	25%	0.00	0.00	0.00	
	50%	0.61	0.58	0.52	0.54
	75%	0.74	0.70	0.66	0.68
	100%	0.80	0.78	0.75	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	10.8	11.0	11.1	11.1
	P2 (0,5;1,0)	8.2	8.4	8.5	8.4
	P3 (0,25;1,0)	7.3	7.4	7.5	7.5
	P4 (0,9;0,5)	6.7	6.9	6.9	6.9
	P5 (0,5;0,5)	4.4	4.4	4.5	4.5
	P6 (0,5;0,25)	3.5	3.6	3.6	3.6
	P7 (0,25;0,25)	2.4	2.4	2.5	2.4
Bearing type	: Drive end : 6206 ZZ	Non drive end : 6205 ZZ	Foundation loads		
Sealing	: Oil Seal	Lip Seal	Max. traction	: 1437 N	
Lubrication interval	: -	-	Max. compression	: 1847 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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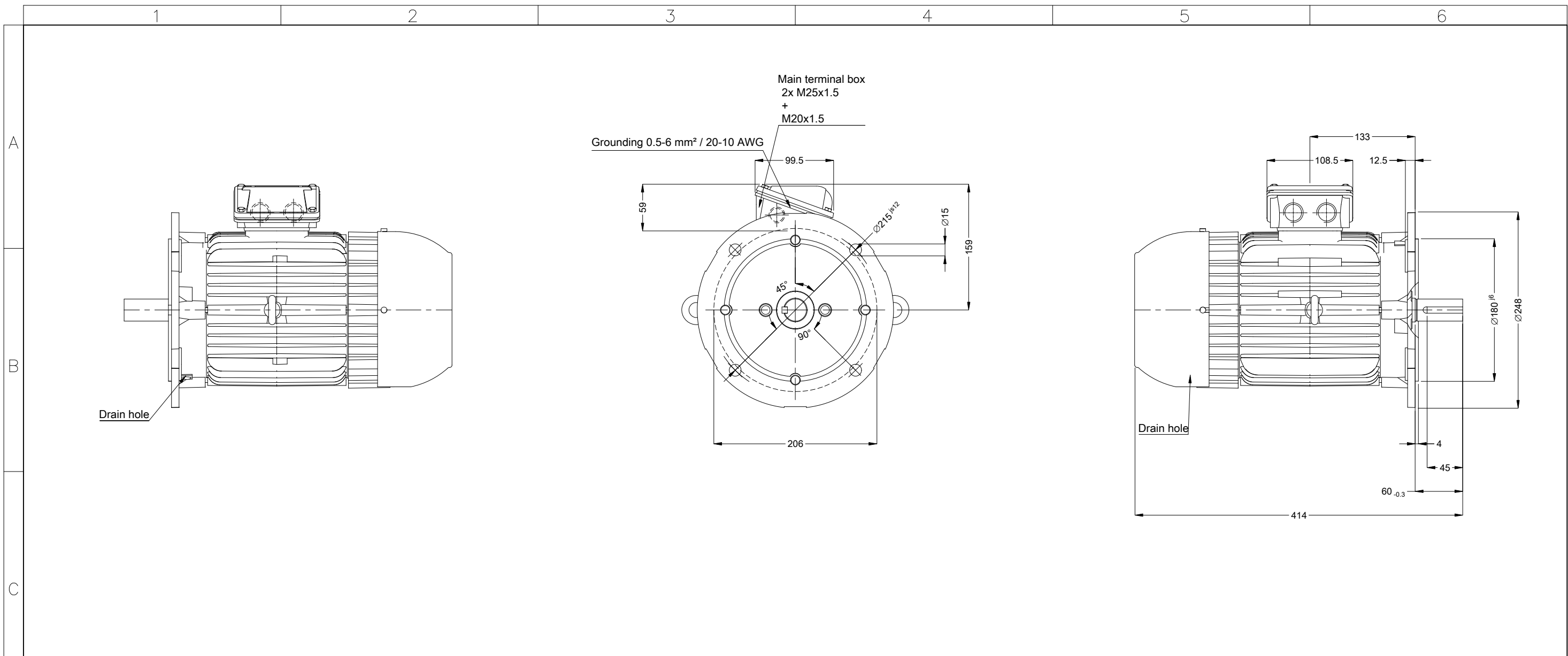
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Thermal protection

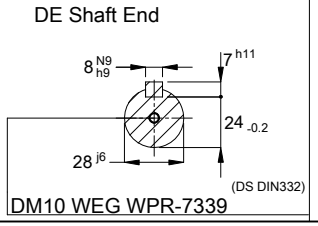
ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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				Revision



D			3 kW 04 Poles 50 Hz		A						
			Scale 1 : 5								
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						
	Color RAL 5009		CHECKED		FRAME L100L IP55 TEFC						
Painting plan 207A	RELEASED										
Mounting B5T	REL. DATE										

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	HYBRISUSER	THREE PH. MOTOR W22 IE3
CHECKED		FRAME L100L IP55 TEFC
RELEASED		
REL. DATE		

				HYBRISUSER	00			
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3	FRAME L100L IP55 TEFC	EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED								
RELEASED								
REL. DATE								

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