

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22Xdb IE3 Three-Phase			Product code : 15546083			
Frame	: 112M		Locked rotor time	: 27s (cold) 15s (hot)		
Output	: 4 kW (5.5 HP)		Temperature rise	: 80 K		
Frequency	: 50 Hz		Duty cycle	: S1		
Rated voltage	: 400/690 V		Ambient temperature	: -20°C to +40°C		
Poles	: 4		Altitude	: 1000 m.a.s.l.		
Rated current	: 8.69/5.04 A		Protection degree	: IP56		
LRC	: 7.1		Cooling method	: IC411 - TEFC		
Rated speed	: 1450 rpm		Mounting	: B3T		
Rated torque	: 26.4 Nm		Rotation ¹	: Both (CW and CCW)		
Insulation class	: F		Noise level ²	: 56.0 dB(A)		
Service factor	: 1.00		Starting method	: VFD		
Moment of inertia (J)	: 0.0182 kgm ²		Approx. weight ³	: 71.0 kg		
Design	: N					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	87.5	88.2	88.6	Max. traction	: 1343 N
Power Factor	0.00	0.53	0.69	0.75	Max. compression	: 2039 N
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
12.6	11.7	11.8	5.9	4.7	3.2	2.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6207 ZZ		6206 ZZ		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	0 h		0 h		
Lubricant amount	:	0 g		0 g		
Lubricant type	:	Mobil Polyrex EM				
Notes						
Motor suitable for operation at 1000 m.a.s.l, 40°C of ambient temperature, load torque of 25.1 Nm and service factor of 1.00.						
ATEX: II 2G Ex db eb IIB T4 Gb						
IECEX: Ex db eb IIB T4 Gb						
EAC: Ex db eb IIB T4 Gb						
Motor suitable for operation at 1000 m.a.s.l, 40°C of ambient temperature, load torque of 25.1 Nm and service factor of 1.00.						
Motor suitable for starting method DOL + VFD						
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
Performed by						
Checked by					Page	Revision
Date	06/01/2026				1 / 2	

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Customer : _____

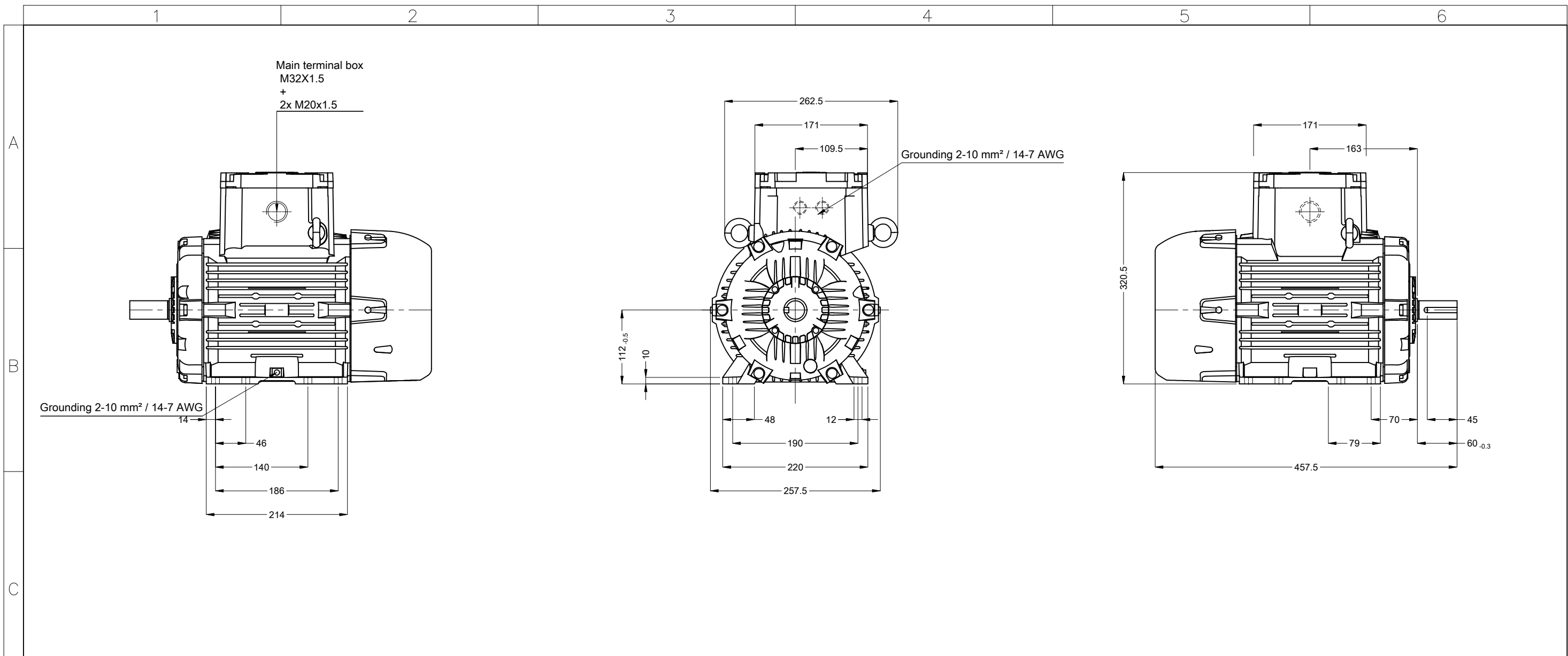
Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

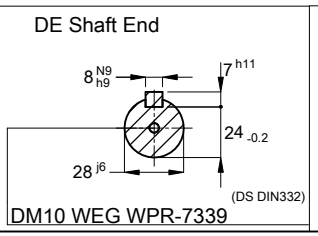
Voltage: 200 - 240 V

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D			4 kW 04 Poles 50 Hz		A
			Scale 1 : 6		
E			HYBRISUSER		00
	ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED
	EXECUTED	HYBRISUSER	THREE PH. MOTOR W22Xdb IE3	RELEASED	DATE
	CHECKED		FRAME 112M IP56 TEFC	REL. DATE	VER

Ex eb Increased safety terminal block
 Color RAL 5009
 Painting plan 205P
 Mounting B3T



PREVIEW		
WDD	00	
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