

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22Xdb IE3 Three-Phase			Product code : 15546095			
Frame	: 160M/L		Locked rotor time	: 19s (cold) 11s (hot)		
Output	: 15 kW (20 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	: 28.3/16.4 A		Protection degree	: IP56		
LRC	: 7.0		Cooling method	: IC411 - TEFC		
Rated speed	: 1475 rpm		Mounting	: B3T		
Rated torque	: 97.2 Nm		Rotation <sup>1</sup>	: Both (CW and CCW)		
Insulation class	: F		Noise level <sup>2</sup>	: 61.0 dB(A)		
Service factor	: 1.00		Starting method	: VFD		
Moment of inertia (J)	: 0.1534 kgm <sup>2</sup>		Approx. weight <sup>3</sup>	: 200 kg		
Design	: N					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.0	92.5	92.3	Max. traction	: 3203 N
Power Factor	0.00	0.66	0.77	0.83	Max. compression	: 5165 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)
8.2	7.3	7.0	3.8	2.8	1.8	1.3
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6309 C3		6308 C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	13 g		11 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 92.8 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						
Suitable for VSD application with maximum load of 14 kW.						
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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Checked by					Page	Revision
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Customer : \_\_\_\_\_

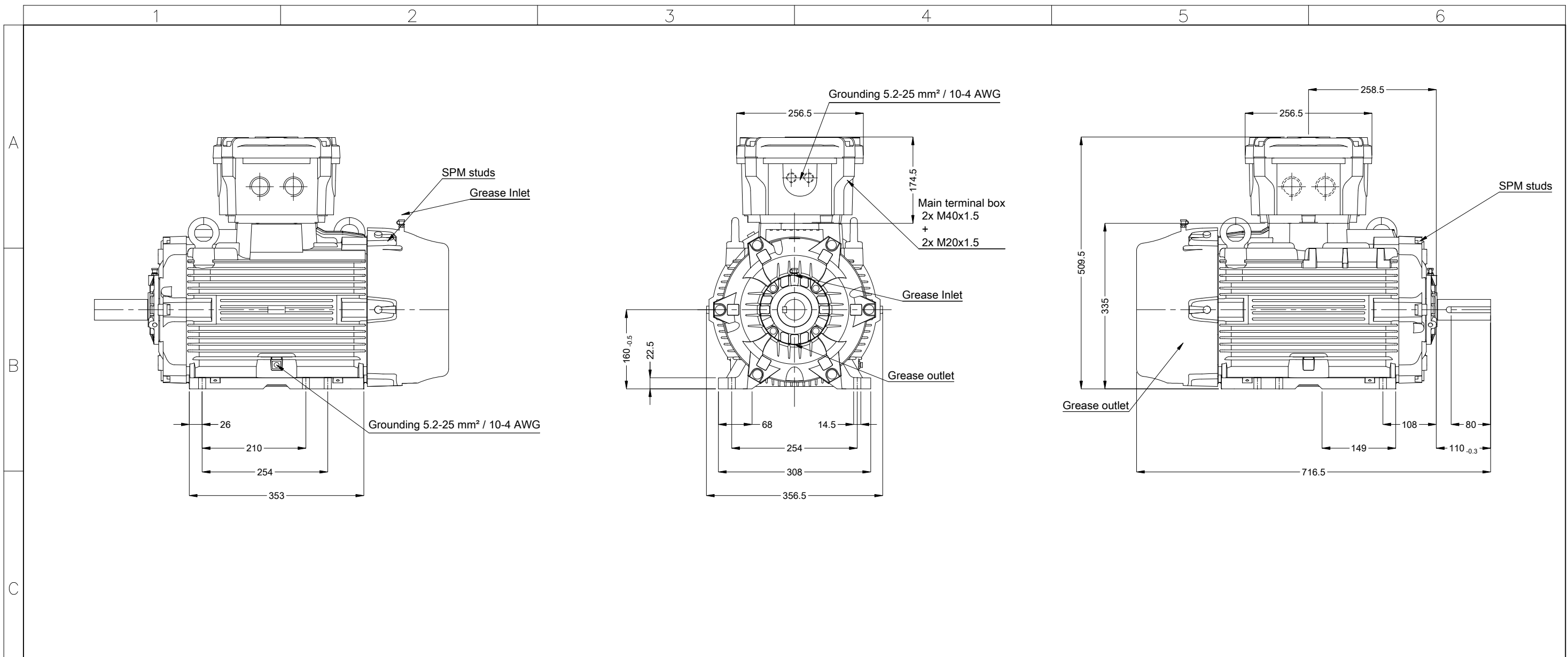
### Thermal protection

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

### Space heater information

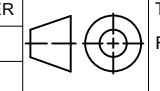
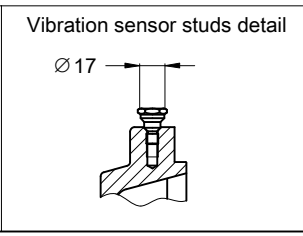
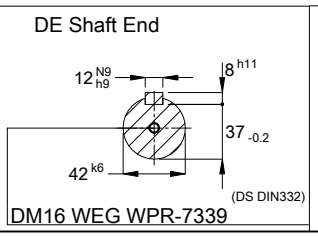
Voltage: 200 - 240 V

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				15 kW 04 Poles 50 Hz		A
				Scale		1 : 8
				HYBRISUSER		00
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22Xdb IE3		DATE
		CHECKED		FRAME 160M/L IP56 TEFC		VER
		RELEASED				
		REL. DATE				

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



PREVIEW  
WDD 00  
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