

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : GeTech Automation SRL
Customer reference : www.ge-tech.ro

Product line : W22Xdb IE3 Three-Phase Product code : 15540432

Frame	: 160M/L	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 11 kW (15 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 20.9/12.1 A	Protection degree	: IP56
L. R. Amperes	: 167/96.9 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3T
No load current	: 9.50/5.51 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1479 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 1.40 %	Starting method	: Direct On Line
Rated torque	: 71.1 Nm	Approx. weight ³	: 203 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1471 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.7	91.6	91.4	Max. traction	: 2317 N
Power Factor	0.65	0.77	0.83	Max. compression	: 4378 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)
9.2	8.1	7.8	4.4	3.2	2.2	1.6

	Drive end	Non drive end
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

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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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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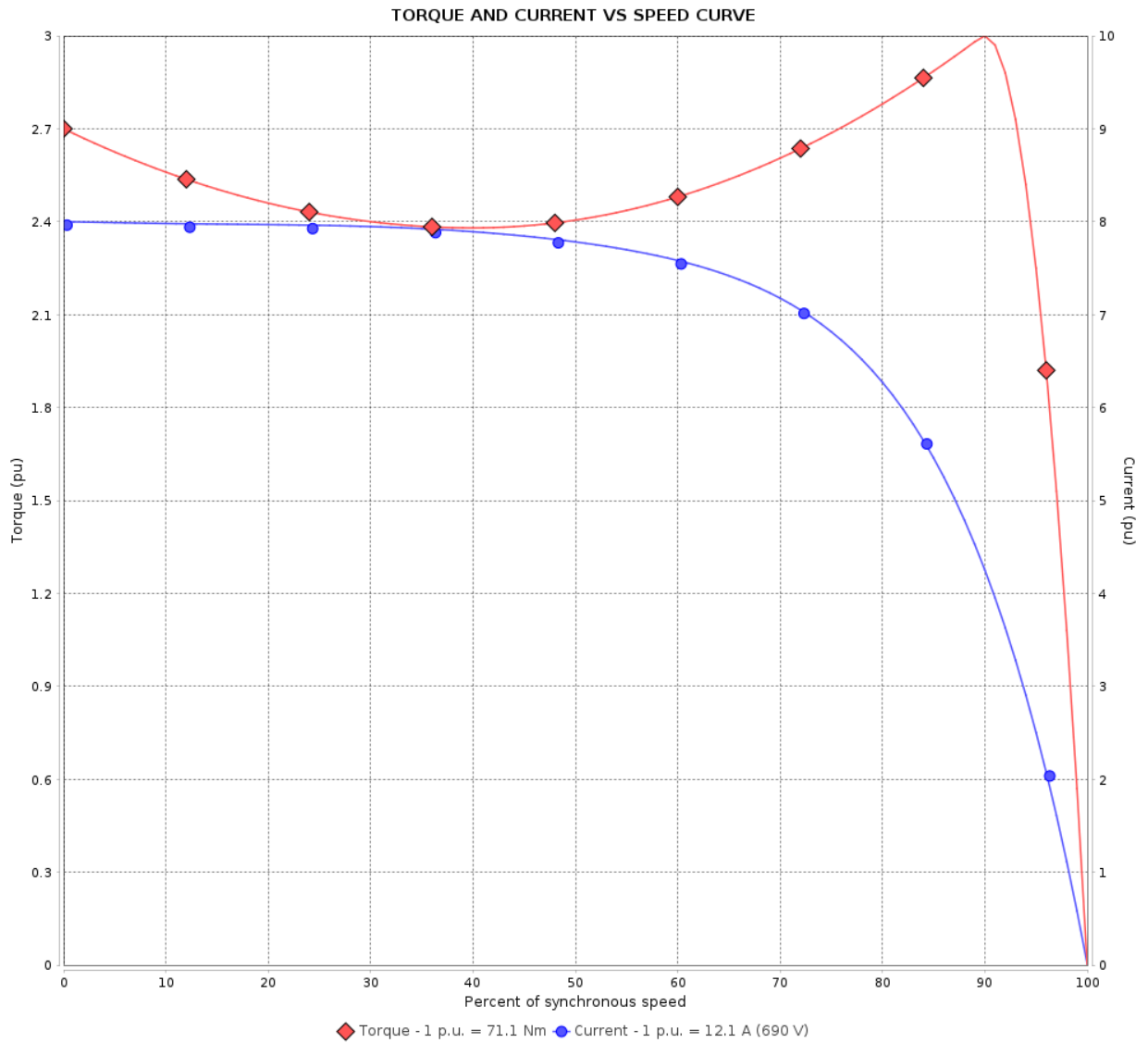
TORQUE AND CURRENT VS SPEED CURVE



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Performance : 400/690 V 50 Hz 4P

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Rated torque	: 71.1 Nm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1479 rpm	Design	: N

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

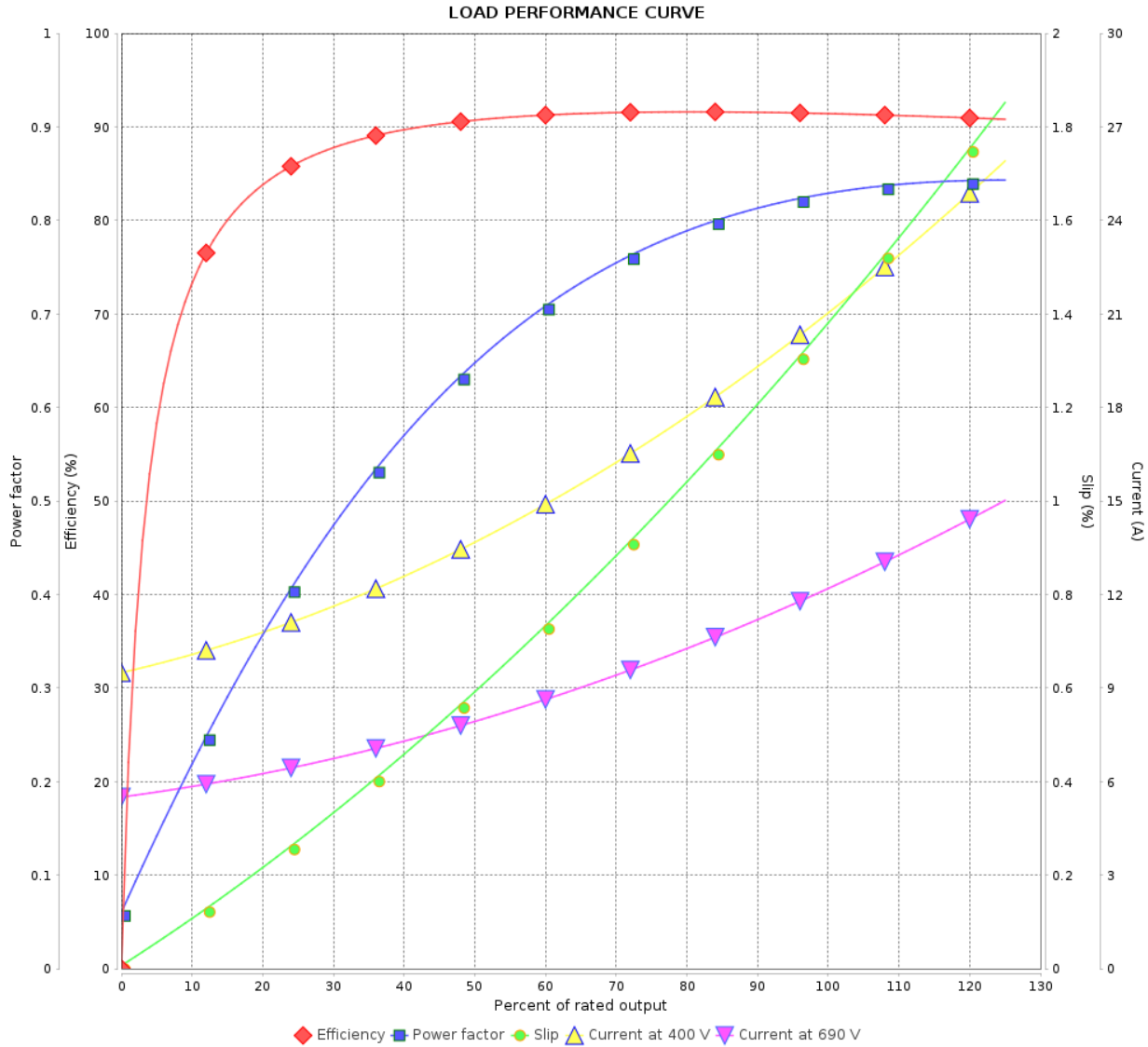


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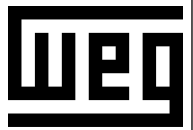
Performance : 400/690 V 50 Hz 4P

Rated current : 20.9/12.1 A
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 Rated torque : 71.1 Nm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1479 rpm

Moment of inertia (J) : 0.1471 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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VFD OPERATION CURVE

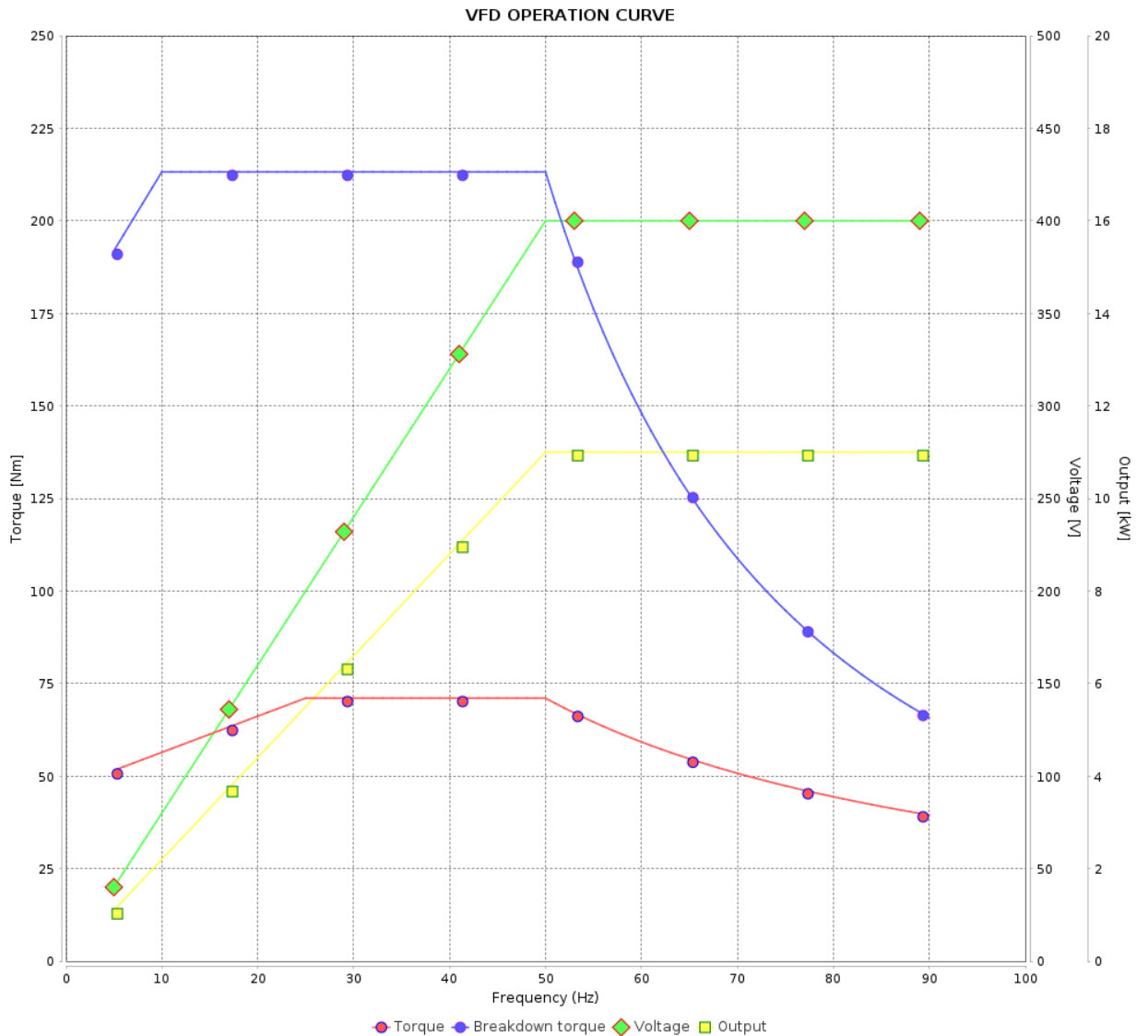


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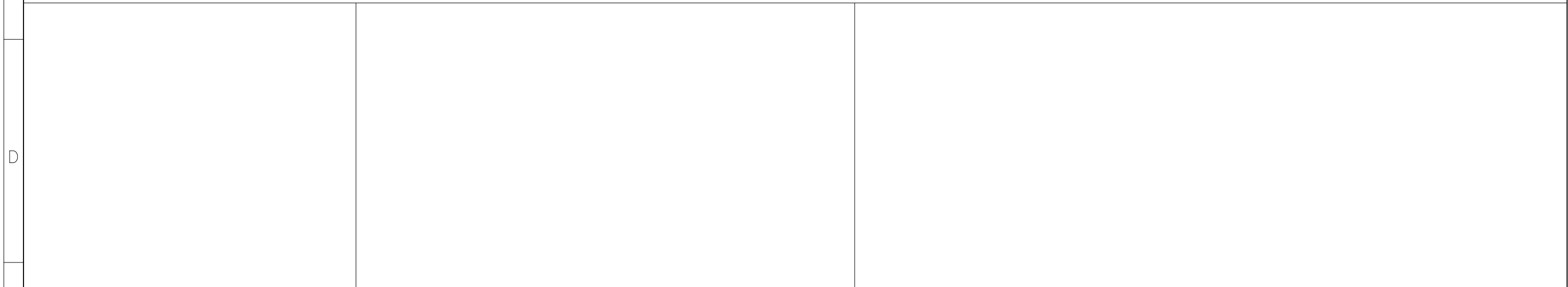
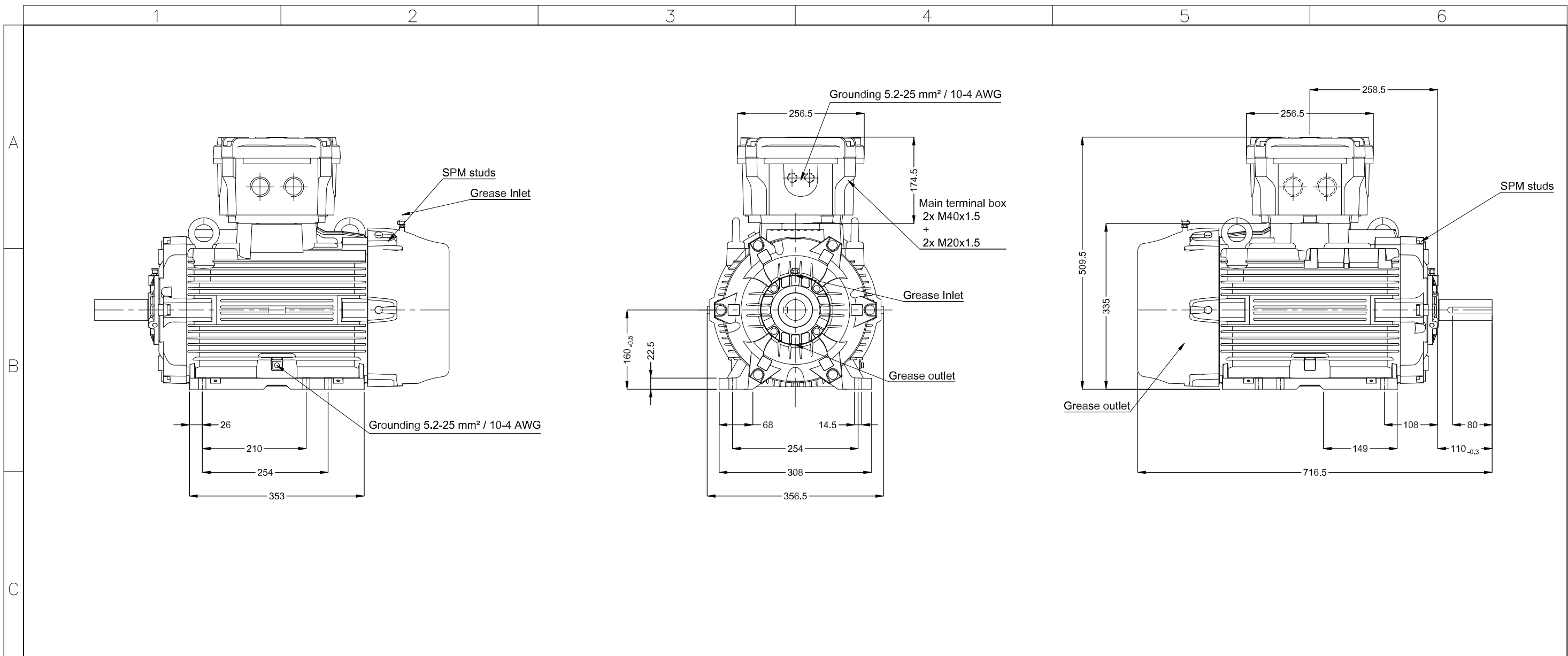


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11 kW 04 Poles 50 Hz										A	
										Scale	1 : 8
										HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22Xdb IE3					PREVIEW		WDD 00		
CHECKED		FRAME 160M/L IP56 TEFC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

SPM studs
Color RAL 5009
Painting plan 205P
Mounting B3T

