

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W20 GENERAL PURPOSE IE3 Three-Phase		Product code :		16017720
Frame	:	160M		Locked rotor time	:	21s (cold) 12s (hot)
Output	:	15 kW (20 HP)		Temperature rise	:	80 K
Poles	:	2		Duty cycle	:	S1
Frequency	:	50 Hz		Ambient temperature	:	-20°C to +40°C
Rated voltage	:	400/690 V		Altitude	:	1000
Rated current	:	27.1/15.7 A		Protection degree	:	IP55
L. R. Amperes	:	211/123 A		Cooling method	:	IC411 - TEFC
LRC	:	7.8		Mounting	:	B3T
No load current	:	10.8/6.26 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	2950 rpm		Noise level ²	:	67.0 dB(A)
Slip	:	1.67 %		Starting method	:	Direct On Line
Rated torque	:	48.6 Nm		Approx. weight ³	:	126 kg
Locked rotor torque	:	280 %				
Breakdown torque	:	370 %				
Insulation class	:	F				
Service factor	:	1.00				
Moment of inertia (J)	:	0.0417 kgm ²				
Design	:	N				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	91.1	91.9	91.9	Max. traction		
Power Factor	0.71	0.82	0.87	Max. compression		
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)
8.5	7.3	6.9	4.1	2.8	1.7	1.2
Bearing type	:	<u>Drive end</u> 6209 ZZ C3		<u>Non drive end</u> 6209 ZZ C3		
Sealing	:	V'Ring		V'Ring		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
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.		
Rev.	Changes Summary			Performed	Checked	Date
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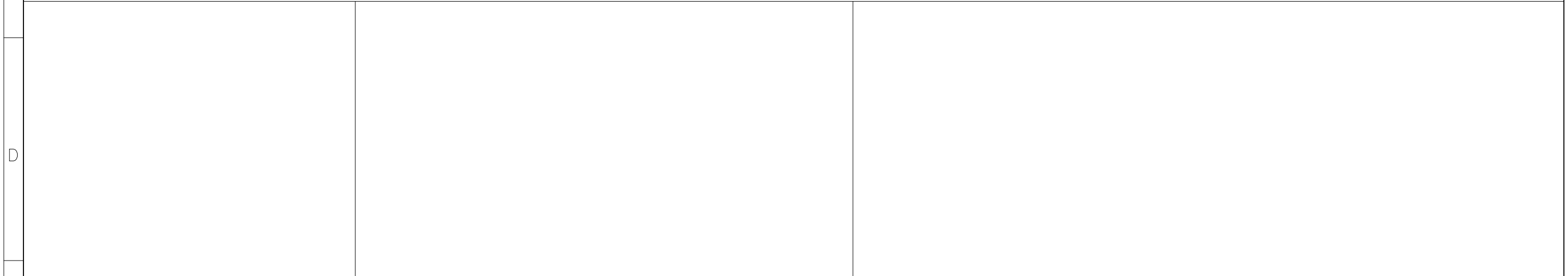
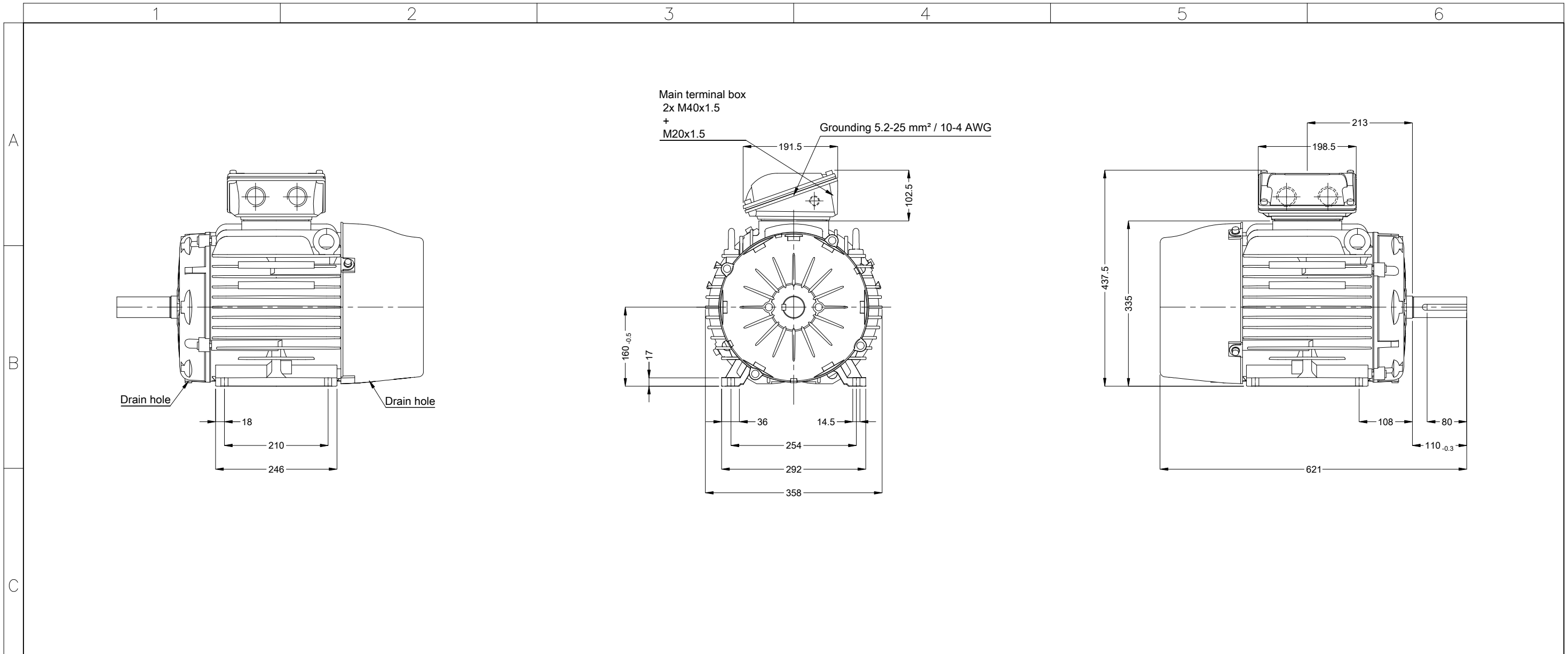


Customer : _____

Thermal protection

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

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Color RAL 7042											
Painting plan 203A											
Mounting NEMA F-3											
Mounting B3T											
15 kW 02 Poles 50 Hz										A	
Scale 1 : 8											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W20 GENERAL PURPOSE IE3					EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		FRAME 160M IP55 TEFC					EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED							EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE							EXECUTED	CHECKED	RELEASED	DATE	VER
						PREVIEW		WDD 00			
						SHEET 1 / 1					