

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W20 GENERAL PURPOSE IE3 Three-Phase		Product code :		16310518
Frame	:	225S/M		Locked rotor time	:	39s (cold) 22s (hot)
Output	:	45 kW (60 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
Rated current	:	82.1/47.6 A		Protection degree	:	IP55
L. R. Amperes	:	583/338 A		Cooling method	:	IC411 - TEFC
LRC	:	7.1		Mounting	:	B3T
No load current	:	34.0/19.7 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1480 rpm		Noise level ²	:	64.0 dB(A)
Slip	:	1.33 %		Starting method	:	Direct On Line
Rated torque	:	291 Nm		Approx. weight ³	:	370 kg
Locked rotor torque	:	290 %				
Breakdown torque	:	310 %				
Insulation class	:	F				
Service factor	:	1.00				
Moment of inertia (J)	:	0.5651 kgm ²				
Design	:	N				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.4	94.2	94.2	Max. traction		
Power Factor	0.70	0.80	0.84	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)
5.8	4.8	4.7	2.8	1.8	1.2	0.8
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6214 C3		6212 C3		
Sealing	:	WSeal		V'Ring		
Lubrication interval	:	13200 h		13200 h		
Lubricant amount	:	15 g		13 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.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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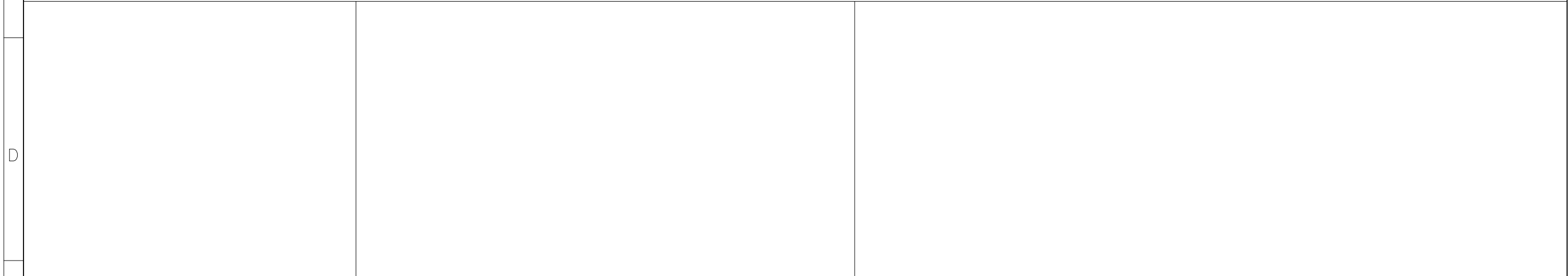
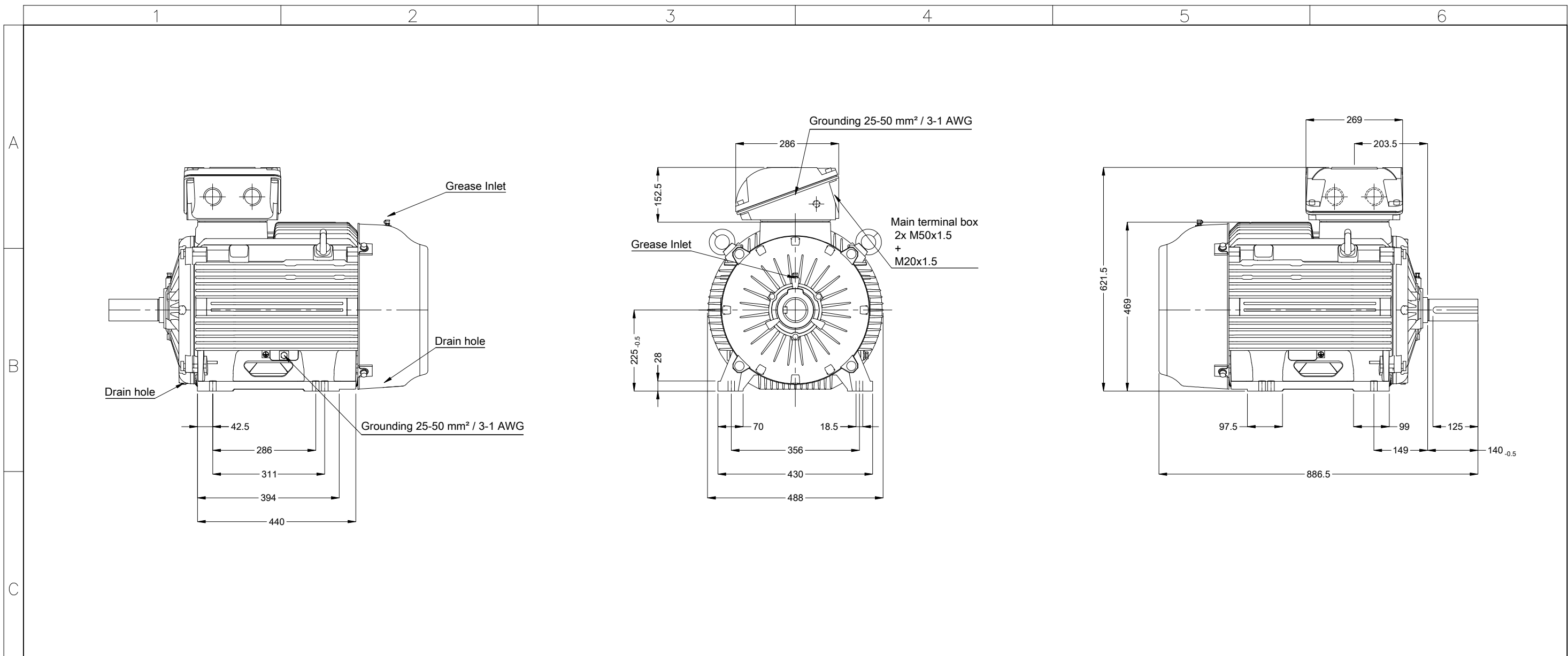


Customer : _____

Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
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Color RAL 7042		DE Shaft End		45 kW 04 Poles 50 Hz		A					
Painting plan 203A				Scale 1 : 11							
Mounting NEMA F-3				HYBRISUSER		00					
Mounting B3T		DM20 WEG WPR-7339		ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
				EXECUTED	HYBRISUSER	THREE PH. MOTOR W20 GENERAL PURPOSE IE3 FRAME 225S/M IP55 TEFC	PREVIEW WDD 00				
				CHECKED			SHEET 1 / 1				
				RELEASED							
				REL. DATE							