

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W20 GENERAL PURPOSE IE4 Three-Phase		Product code :		16311260
Frame	: W280S/M		Locked rotor time	: 57s (cold) 32s (hot)		
Output	: 75 kW (100 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	: 130/75.4 A		Protection degree	: IP55		
L. R. Amperes	: 1079/626 A		Cooling method	: IC411 - TEFC		
LRC	: 8.3		Mounting	: B3T		
No load current	: 43.0/24.9 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 2965 rpm		Noise level ²	: 74.0 dB(A)		
Slip	: 1.17 %		Starting method	: Direct On Line		
Rated torque	: 242 Nm		Approx. weight ³	: 540 kg		
Locked rotor torque	: 320 %					
Breakdown torque	: 340 %					
Insulation class	: F					
Service factor	: 1.00					
Moment of inertia (J)	: 0.4568 kgm ²					
Design	: N					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.9	94.7	95.6	Max. traction		
Power Factor	0.76	0.84	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)
4.3	3.2	2.8	2.4	1.4	0.9	0.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6212 C3		
Sealing	:	WSeal		V'Ring		
Lubrication interval	:	6600 h		8800 h		
Lubricant amount	:	27 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
Date	26/11/2025				1 / 2	

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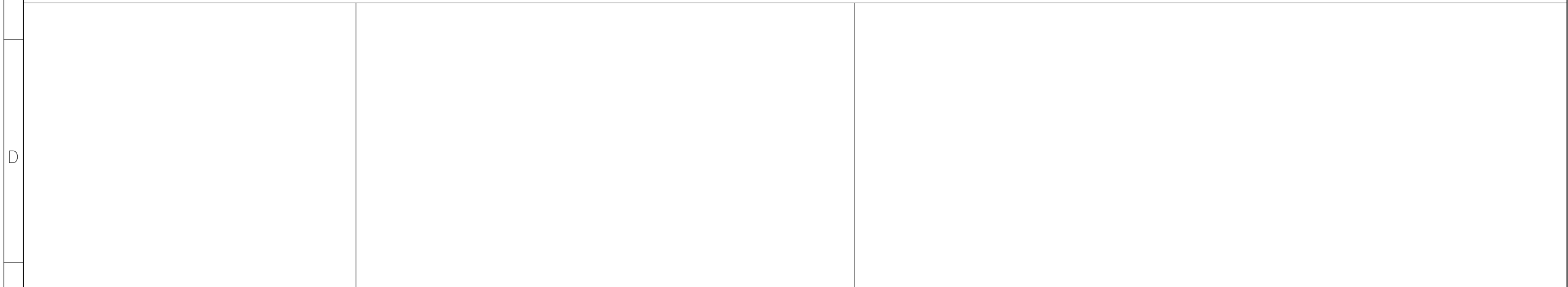
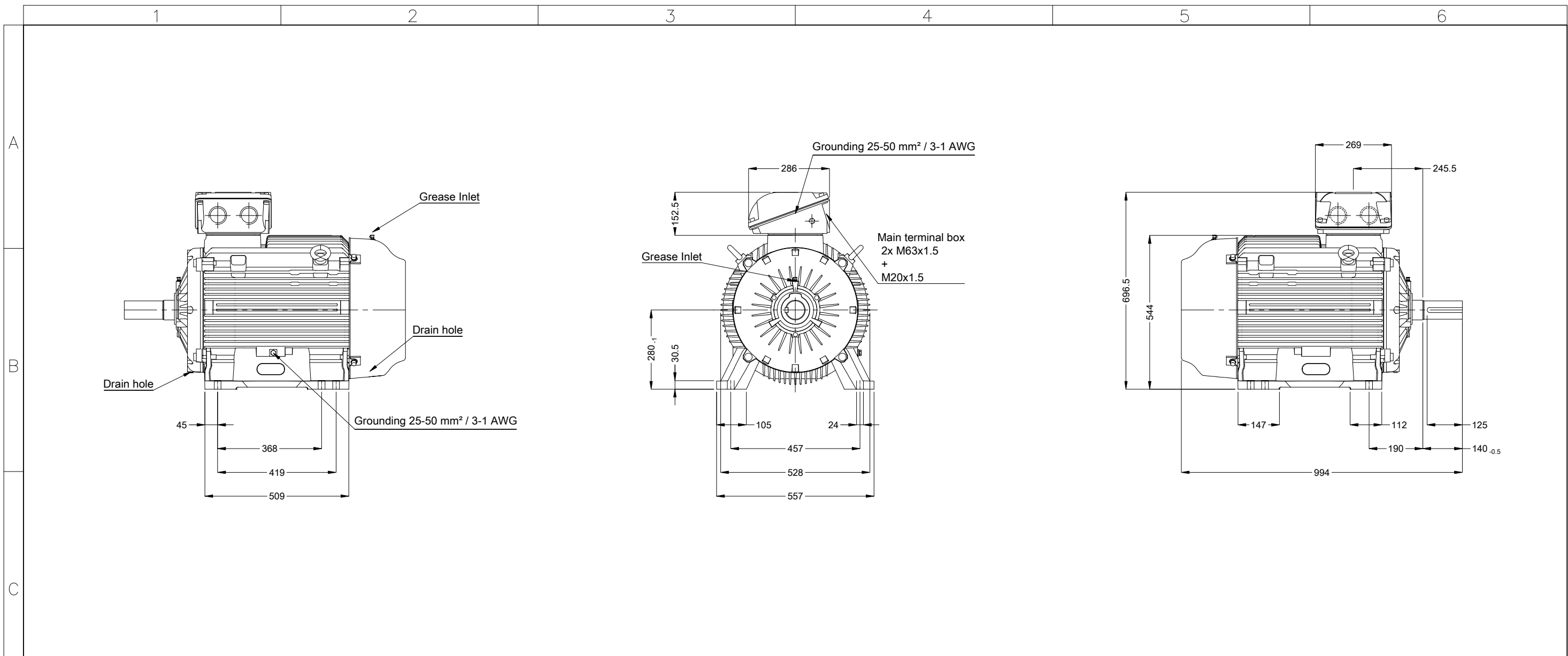


Customer : _____

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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Checked by				
Date	26/11/2025			



75 kW 02 Poles 50 Hz										A	
Scale 1 : 14											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W20 GENERAL PURPOSE IE4						PREVIEW			
CHECKED		FRAME W280S/M IP55 TEFC						WDD	00		
RELEASED								SHEET	1 / 1		
REL. DATE											

Color RAL 7042
 Painting plan 203A
 Mounting NEMA F-3
 Mounting B3T

