

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE1 Three-Phase		Product code : 11098471			
Frame : 250S/M Output : 55 kW Poles : 4 Frequency : 50 Hz Rated voltage : 380/660 V Rated current : 105/60.5 A L. R. Amperes : 704/405 A LRC : 6.7 No load current : 34.0/19.6 A Rated speed : 1470 rpm Slip : 2.00 % Rated torque : 36.4 kgfm Locked rotor torque : 220 % Breakdown torque : 229 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.7731 kgm ² Design : N		Locked rotor time : 21s (cold) 12s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 66.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 440 kg			
Output	50%	75%	100%	Foundation loads Max. traction : 612 kgf Max. compression : 1052 kgf	
Efficiency (%)	93.1	93.1	92.7		
Power Factor	0.77	0.84	0.86		
		<u>Drive end</u> Bearing type : 6314 C3 Sealing : WSeal Lubrication interval : 14000 h Lubricant amount : 27 g Lubricant type : Mobil Polyrex EM	<u>Non drive end</u> 6314 C3 WSeal 14000 h 27 g		
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					
Date	21/11/2018			Page 1 / 4	Revision

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Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 4	
Date	21/11/2018				

TORQUE AND CURRENT VS SPEED CURVE

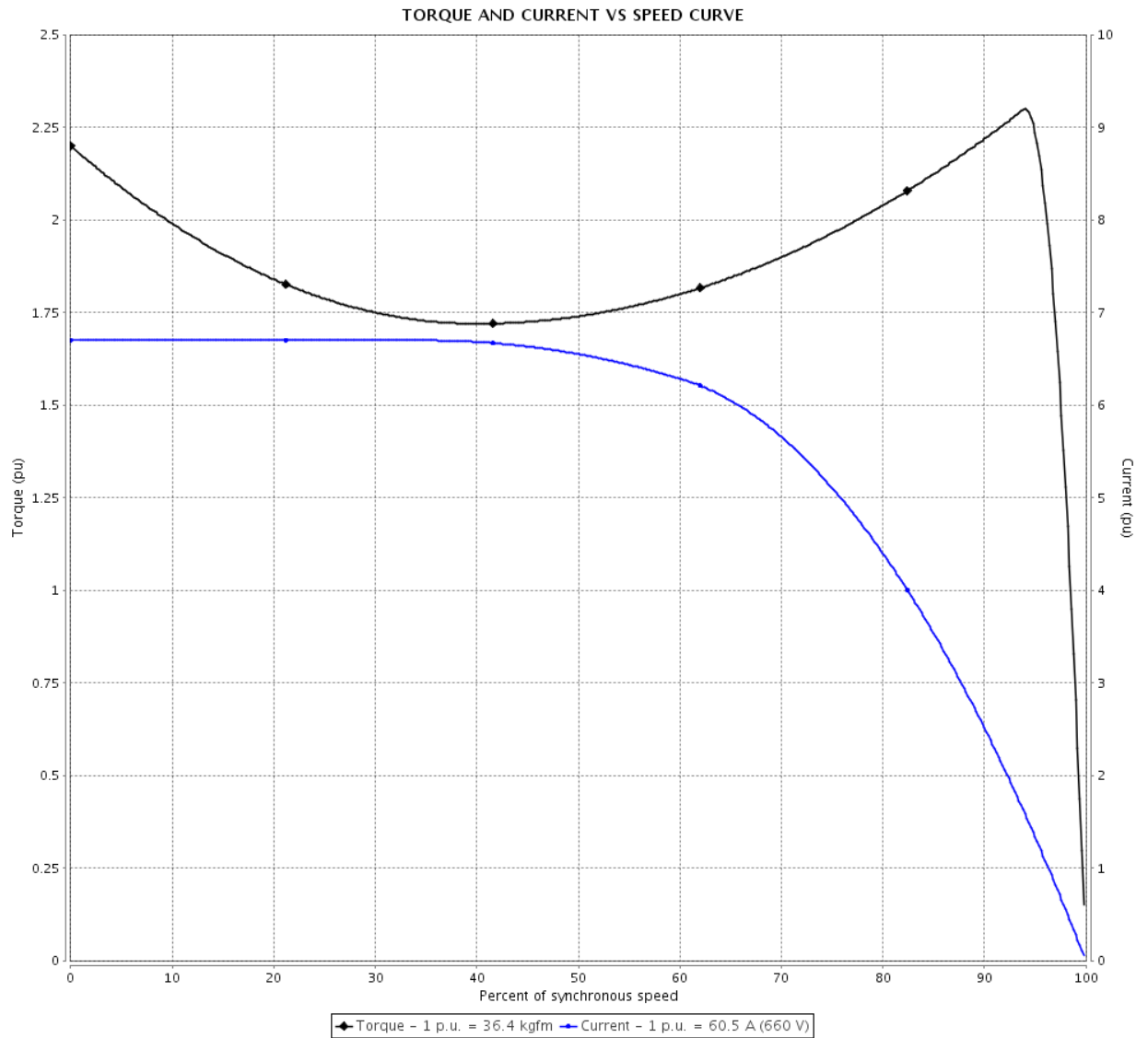
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Performance : 380/660 V 50 Hz 4P

Rated current : 105/60.5 A
LRC : 6.7
Rated torque : 36.4 kgfm
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.7731 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 21s (cold) 12s (hot)

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	21/11/2018			

LOAD PERFORMANCE CURVE

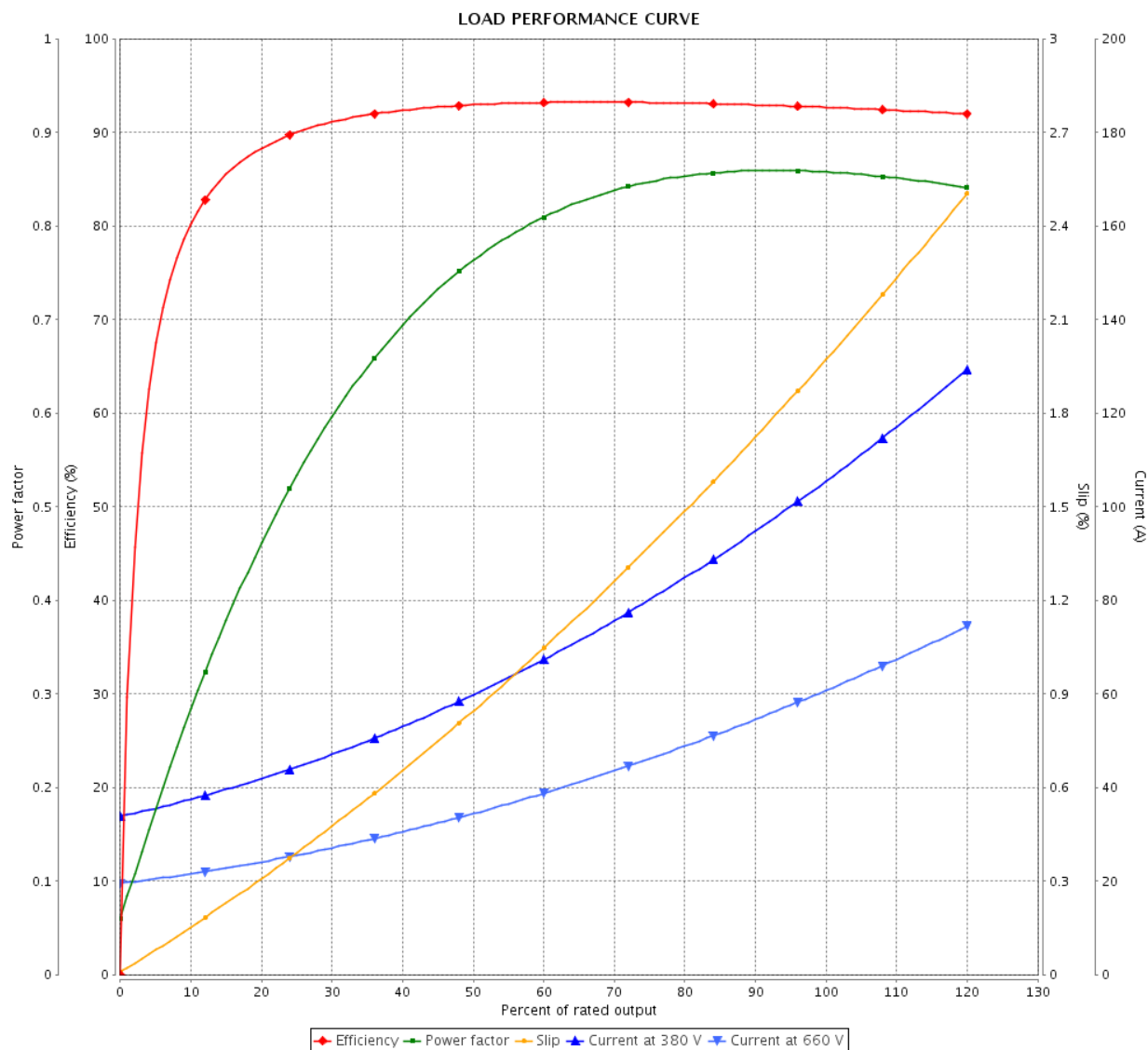
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Customer :

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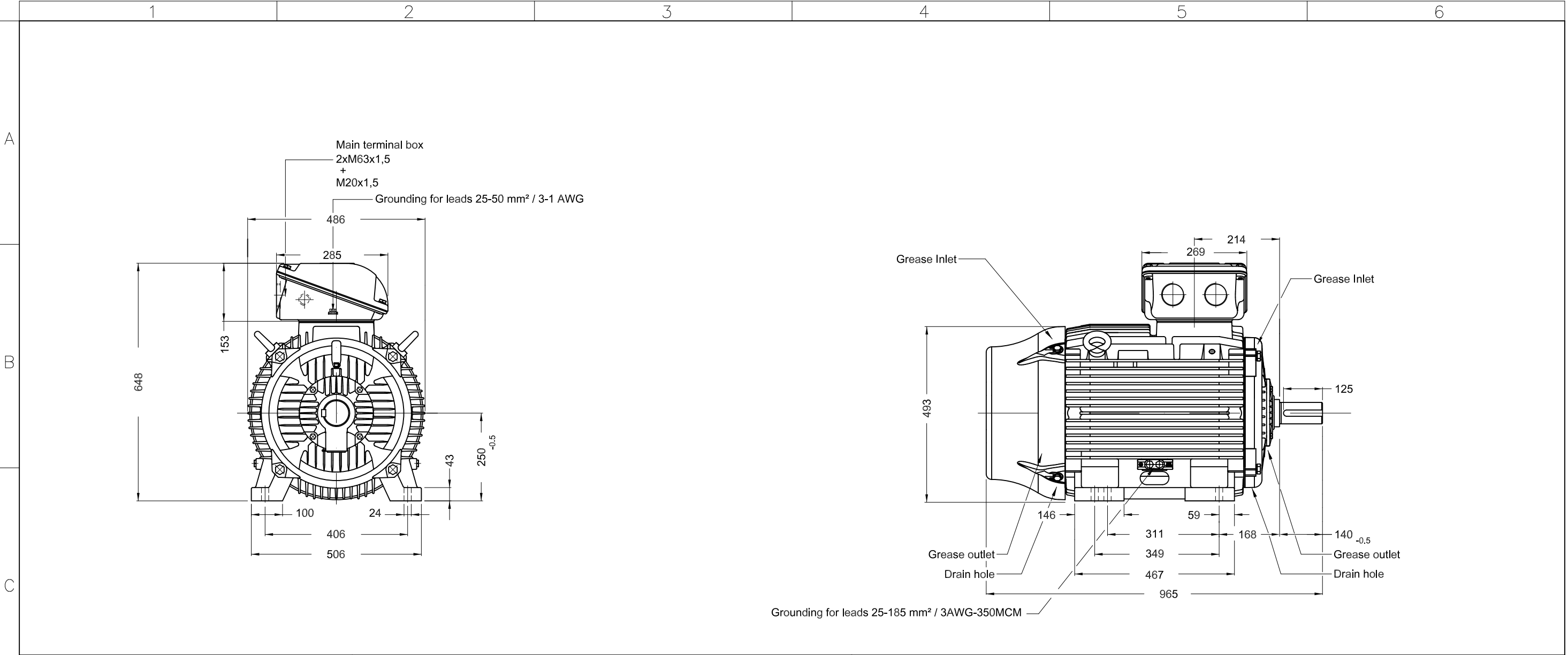


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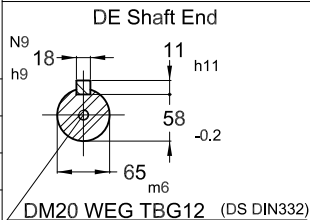
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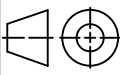


Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3T



55 kW 04 Poles 50 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE W22 MOTOR FRAME 250S/M IP55 TEFC				PREVIEW WDD				
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1		