

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: ROSHD SANAT NIROO			
Product line		: W22 IE1 Three-Phase		Product code : 11274756	
Frame	: 180L	Locked rotor time	: 18s (cold) 10s (hot)		
Output	: 22 kW	Temperature rise	: 80 K		
Poles	: 4	Duty cycle	: S1		
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 42.5/24.5 A	Protection degree	: IP55		
L. R. Amperes	: 281/162 A	Cooling method	: IC411 - TEFC		
LRC	: 6.6	Mounting	: B3T		
No load current	: 17.2/9.90 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1460 rpm	Noise level ²	: 61.0 dB(A)		
Slip	: 2.67 %	Starting method	: Direct On Line		
Rated torque	: 14.7 kgfm	Approx. weight ³	: 173 kg		
Locked rotor torque	: 210 %				
Breakdown torque	: 260 %				
Insulation class	: F				
Service factor	: 1.00				
Moment of inertia (J)	: 0.1653 kgm ²				
Design	: N				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.8	91.0	90.5	Max. traction : 486 kgf	
Power Factor	0.72	0.81	0.87	Max. compression : 659 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6311 C3		6211 Z C3	
Sealing	:	V'Ring		V'Ring	
Lubrication interval	:	20000 h		20000 h	
Lubricant amount	:	18 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.					
Rev.	Changes Summary			Performed	Checked
Performed by					
Checked by					
Date	21/11/2018			Page	Revision
				1 / 4	

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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

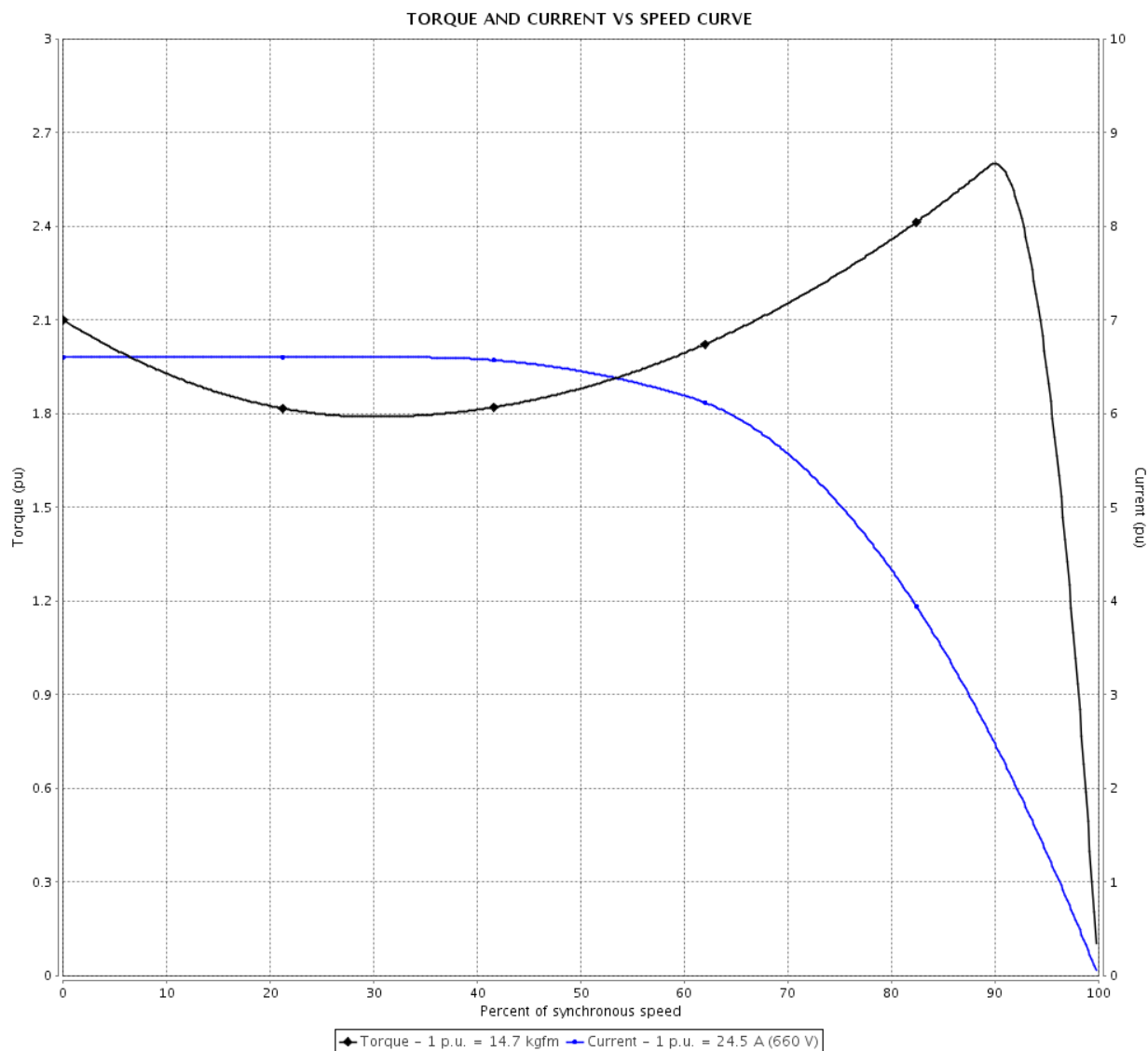
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Customer :

Product line : W22 IE1 Three-Phase

Product code : 11274756



Performance : 380/660 V 50 Hz 4P

Rated current : 42.5/24.5 A
 LRC : 6.6
 Rated torque : 14.7 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.1653 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Locked rotor time : 18s (cold) 10s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4		
Checked by				
Date	21/11/2018			
		Revision		

LOAD PERFORMANCE CURVE

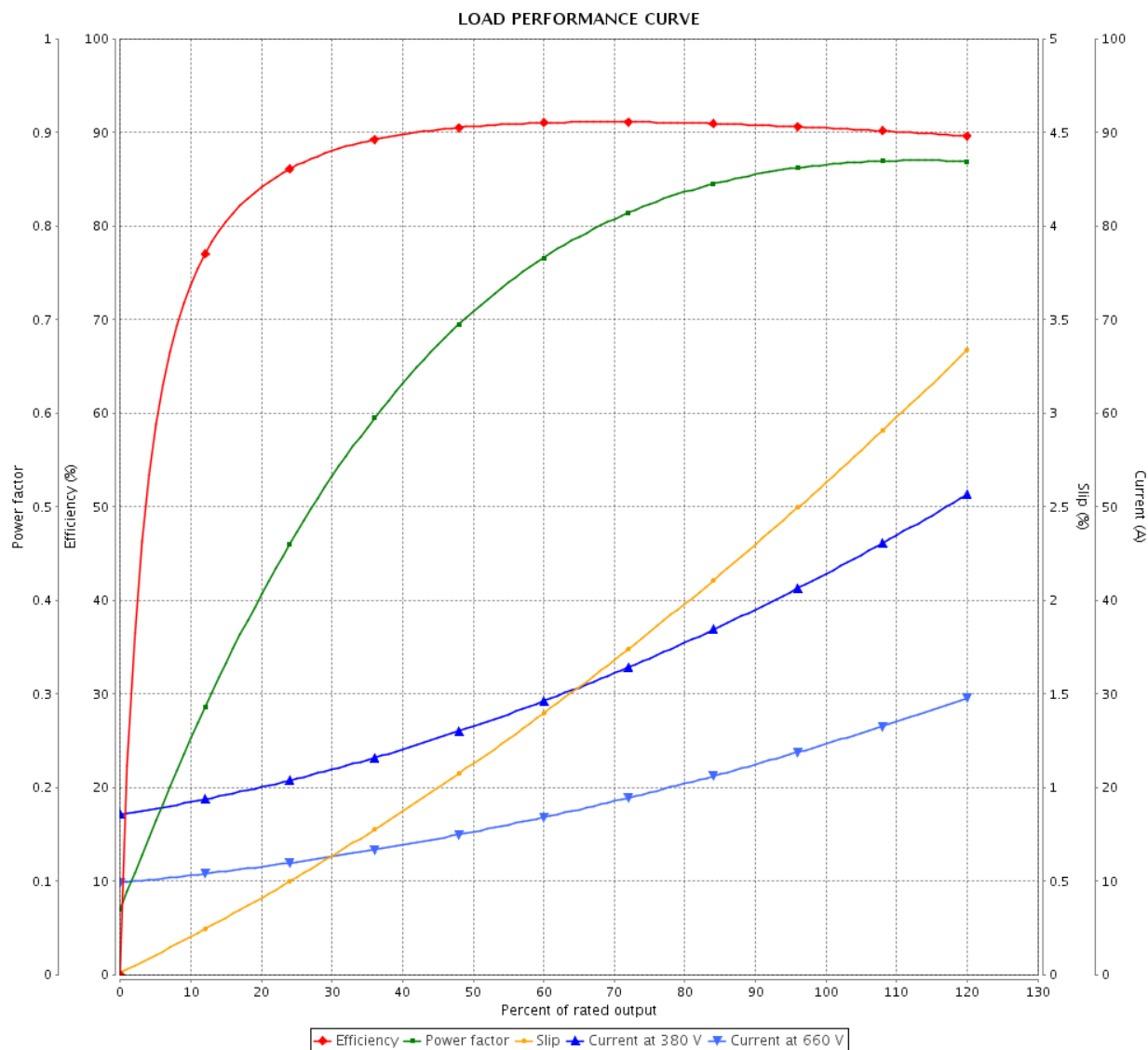
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Customer :

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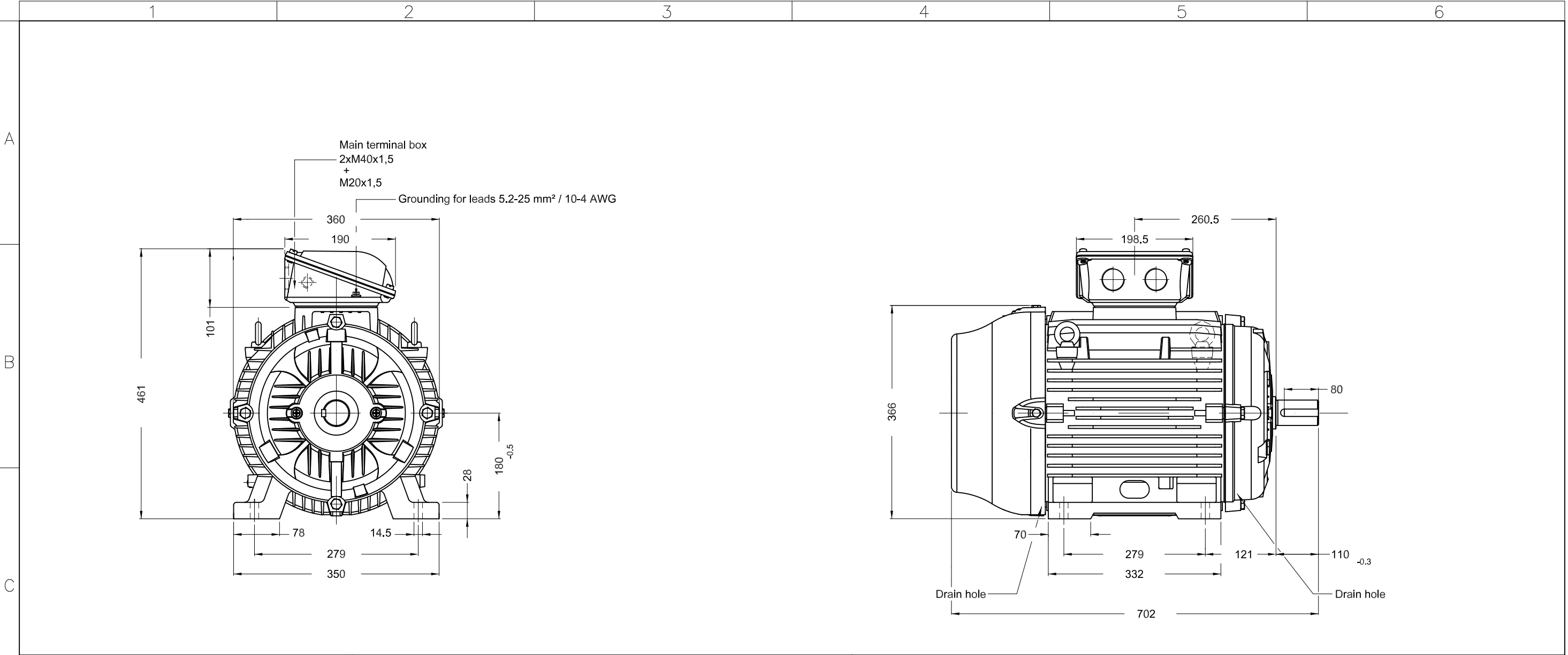


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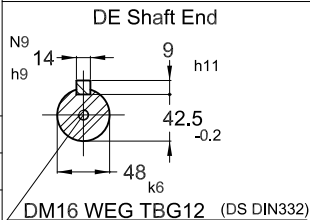
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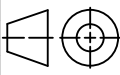
Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				4 / 4	
Date					



Color RAL 5009
Painting plan 203A
Mounting B3T



22 kW 04 Poles 50 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE W22 MOTOR FRAME 180L IP55 TEFC				PREVIEW WDD				
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1		