

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: ROSHD SANAT NIROO			
Product line		: W22 IE1 Three-Phase		Product code :	11360542
Frame	:	160L	Locked rotor time	:	12s (cold) 7s (hot)
Output	:	18.5 kW	Temperature rise	:	80 K
Poles	:	2	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	:	35.5/20.4 A	Protection degree	:	IP55
L. R. Amperes	:	277/159 A	Cooling method	:	IC411 - TEFC
LRC	:	7.8	Mounting	:	B3T
No load current	:	10.9/6.28 A	Rotation ¹	:	Both (CW and CCW)
Rated speed	:	2935 rpm	Noise level ²	:	67.0 dB(A)
Slip	:	2.17 %	Starting method	:	Direct On Line
Rated torque	:	6.14 kgfm	Approx. weight ³	:	133 kg
Locked rotor torque	:	229 %			
Breakdown torque	:	280 %			
Insulation class	:	F			
Service factor	:	1.00			
Moment of inertia (J)	:	0.0626 kgm²			
Design	:	N			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.8	90.8	90.1	Max. traction	: 213 kgf
Power Factor	0.75	0.84	0.88	Max. compression	: 346 kgf
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6309 C3	6209 Z C3		
Sealing	:	V'Ring	V'Ring		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	13 g	9 g		
Lubricant type	:	Mobil Polyrex EM			
Notes					

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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
Performed by				Page 2 / 4Revision	
Checked by					
Date	21/11/2018				

TORQUE AND CURRENT VS SPEED CURVE

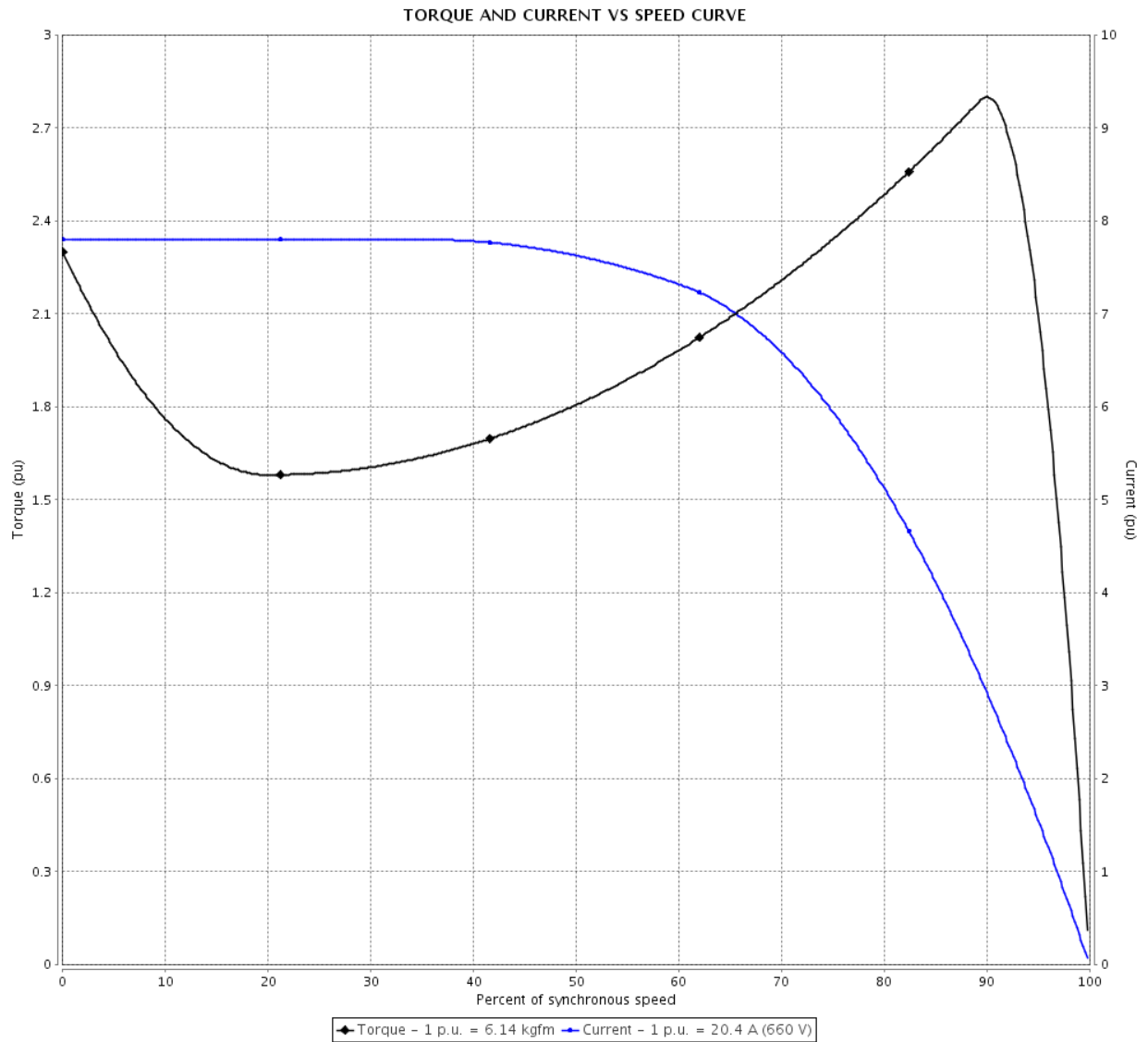
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase

Product code : 11360542



Performance : 380/660 V 50 Hz 2P

Rated current : 35.5/20.4 A
LRC : 7.8
Rated torque : 6.14 kgfm
Locked rotor torque : 229 %
Breakdown torque : 280 %
Rated speed : 2935 rpm

Moment of inertia (J) : 0.0626 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 12s (cold) 7s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
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LOAD PERFORMANCE CURVE

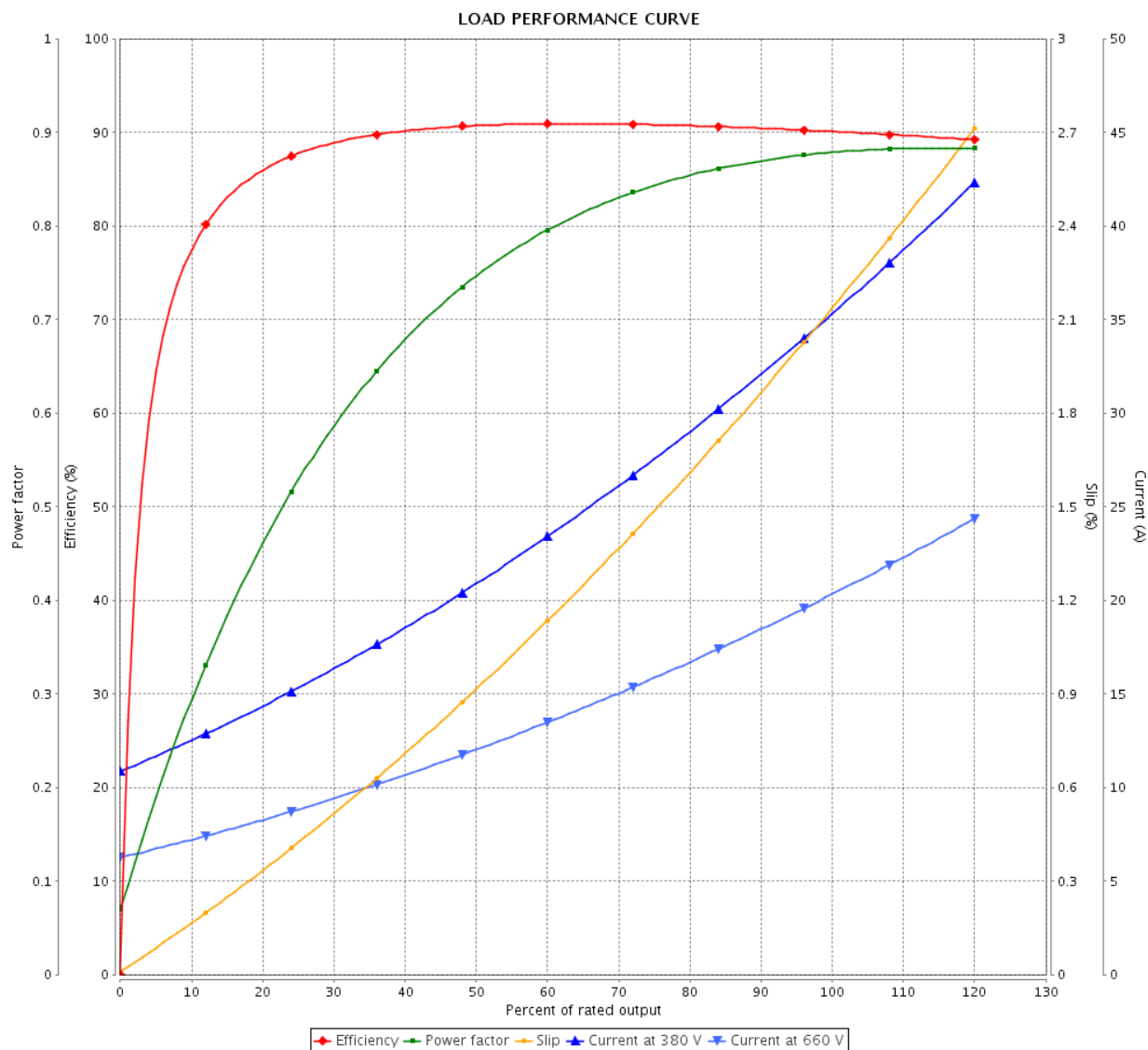
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Customer :

Product line : W22 IE1 Three-Phase

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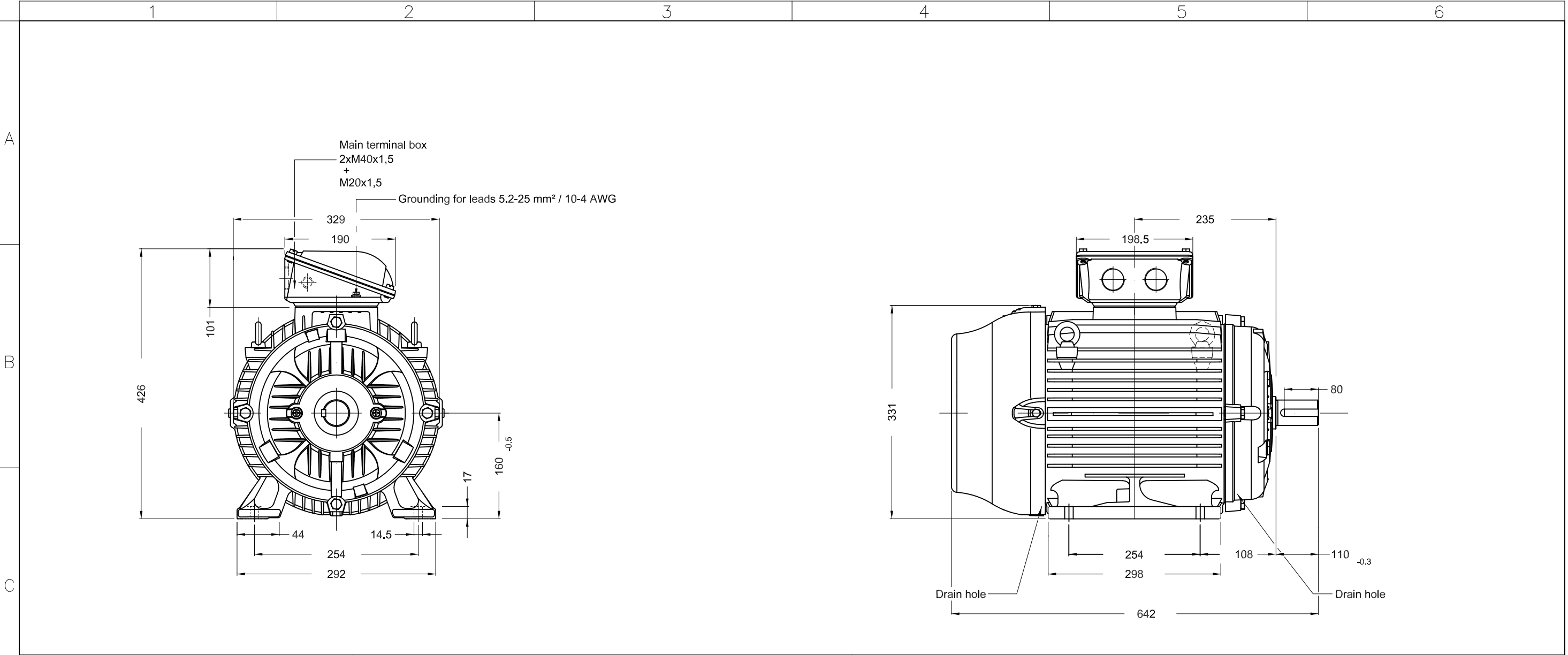


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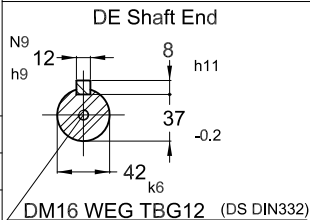
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Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
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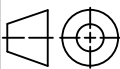


Color RAL 5009
Painting plan 203A
Mounting B3T



18.5 kW 02 Poles 50 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE W22 MOTOR FRAME 160L IP55 TEFC				PREVIEW WDD				
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1		