

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: W22 IE1 Three-Phase		Product code : 11098386
Frame	: 280S/M	Locked rotor time	: 50s (cold) 28s (hot)	
Output	: 75 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	: 138/79.5 A	Protection degree	: IP55	
L. R. Amperes	: 938/540 A	Cooling method	: IC411 - TEFC	
LRC	: 6.8	Mounting	: B3T	
No load current	: 37.6/21.6 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 2970 rpm	Noise level ²	: 77.0 dB(A)	
Slip	: 1.00 %	Starting method	: Direct On Line	
Rated torque	: 24.6 kgfm	Approx. weight ³	: 648 kg	
Locked rotor torque	: 160 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 0.8492 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	92.7	93.5	93.1	Max. traction : 248 kgf
Power Factor	0.81	0.88	0.89	Max. compression : 896 kgf
		<u>Drive end</u>		<u>Non drive end</u>
Bearing type	:	6314 C3		6314 C3
Sealing	:	WSeal		WSeal
Lubrication interval	:	5000 h		5000 h
Lubricant amount	:	27 g		27 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			
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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	Revision
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Date	21/11/2018				

TORQUE AND CURRENT VS SPEED CURVE

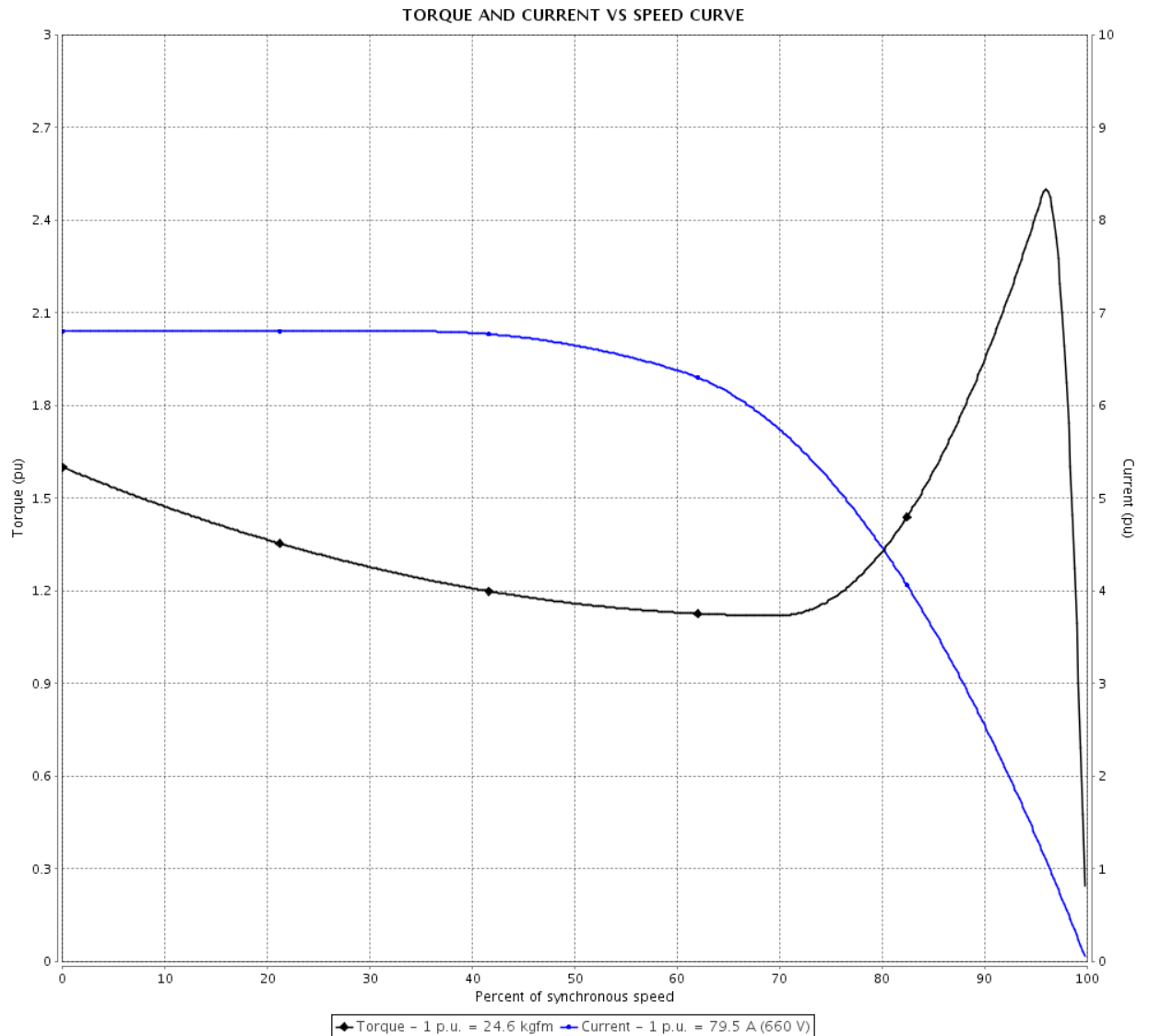
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase

Product code : 11098386



Performance : 380/660 V 50 Hz 2P

Rated current : 138/79.5 A
LRC : 6.8
Rated torque : 24.6 kgfm
Locked rotor torque : 160 %
Breakdown torque : 250 %
Rated speed : 2970 rpm

Moment of inertia (J) : 0.8492 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 50s (cold) 28s (hot)

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

LOAD PERFORMANCE CURVE

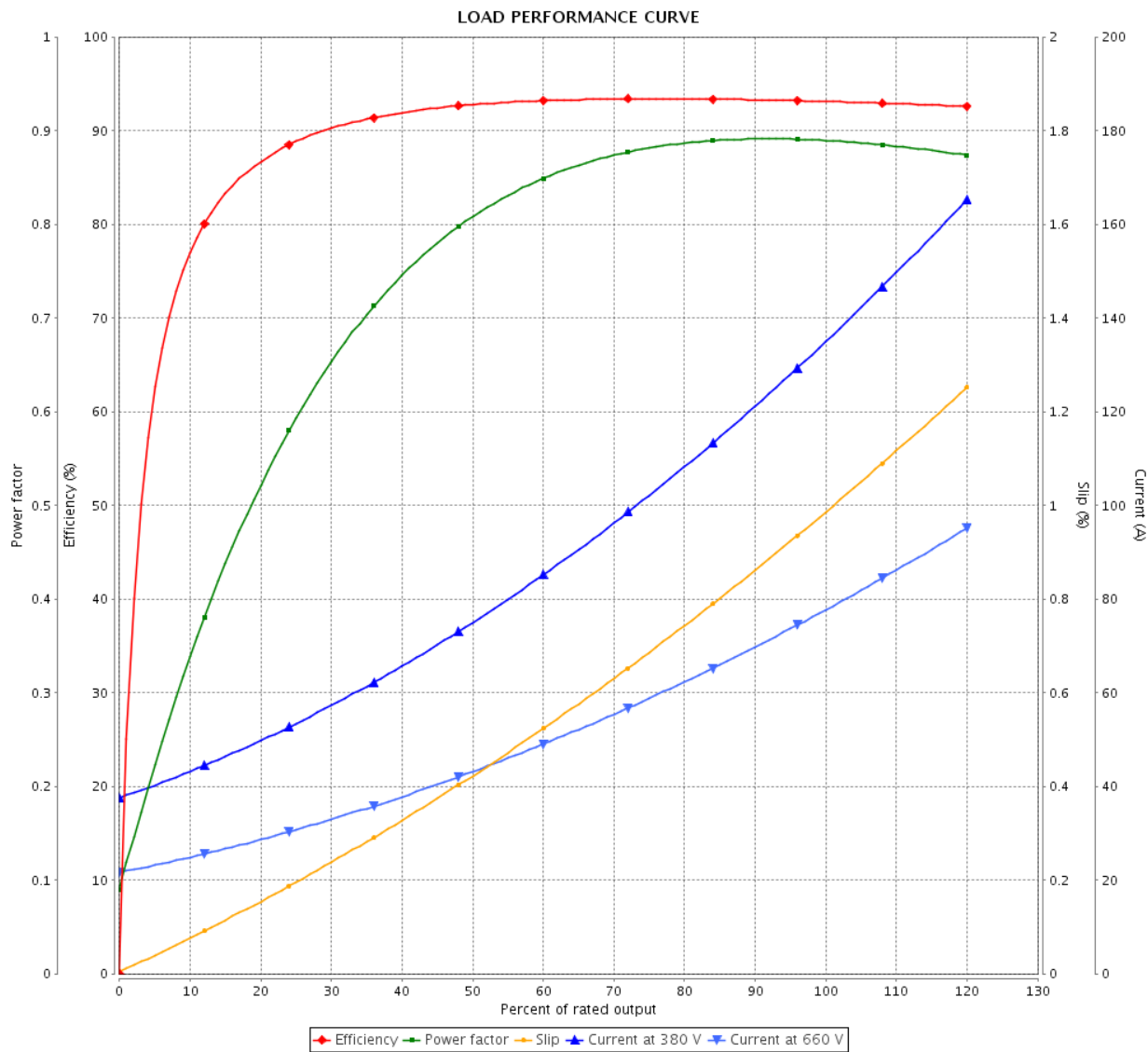
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase

Product code : 11098386

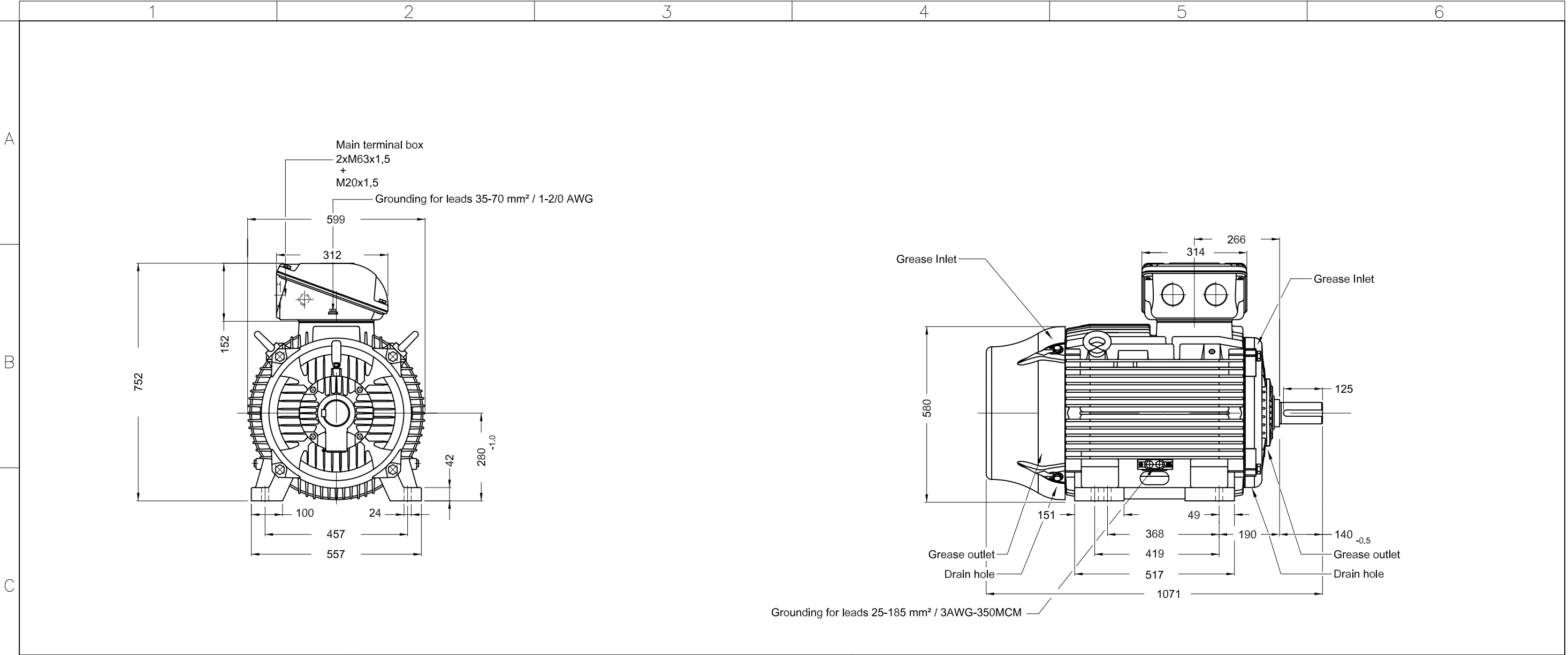


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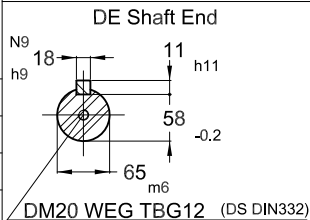
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Moment of inertia (J) : 0.8492 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
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Date					

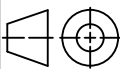


Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3T



75 kW 02 Poles 50 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE W22 MOTOR FRAME 280S/M IP55 TEFC				PREVIEW WDD				
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1		