

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase Product code : 11304358

Frame	: 200L	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 37 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	: 69.7/40.1 A	Protection degree	: IP55
L. R. Amperes	: 467/269 A	Cooling method	: IC411 - TEFC
LRC	: 6.7	Mounting	: B3T
No load current	: 15.0/8.64 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2950 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 12.2 kgfm	Approx. weight ³	: 247 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1950 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.2	92.4	91.6	Max. traction	: 258 kgf
Power Factor	0.80	0.87	0.88	Max. compression	: 505 kgf

	Drive end	Non drive end
Bearing type	: 6312 C3	: 6212 Z C3
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 15000 h	: 18000 h
Lubricant amount	: 21 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.

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Date	21/11/2018			

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Thermal protection

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

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Date	21/11/2018				

TORQUE AND CURRENT VS SPEED CURVE

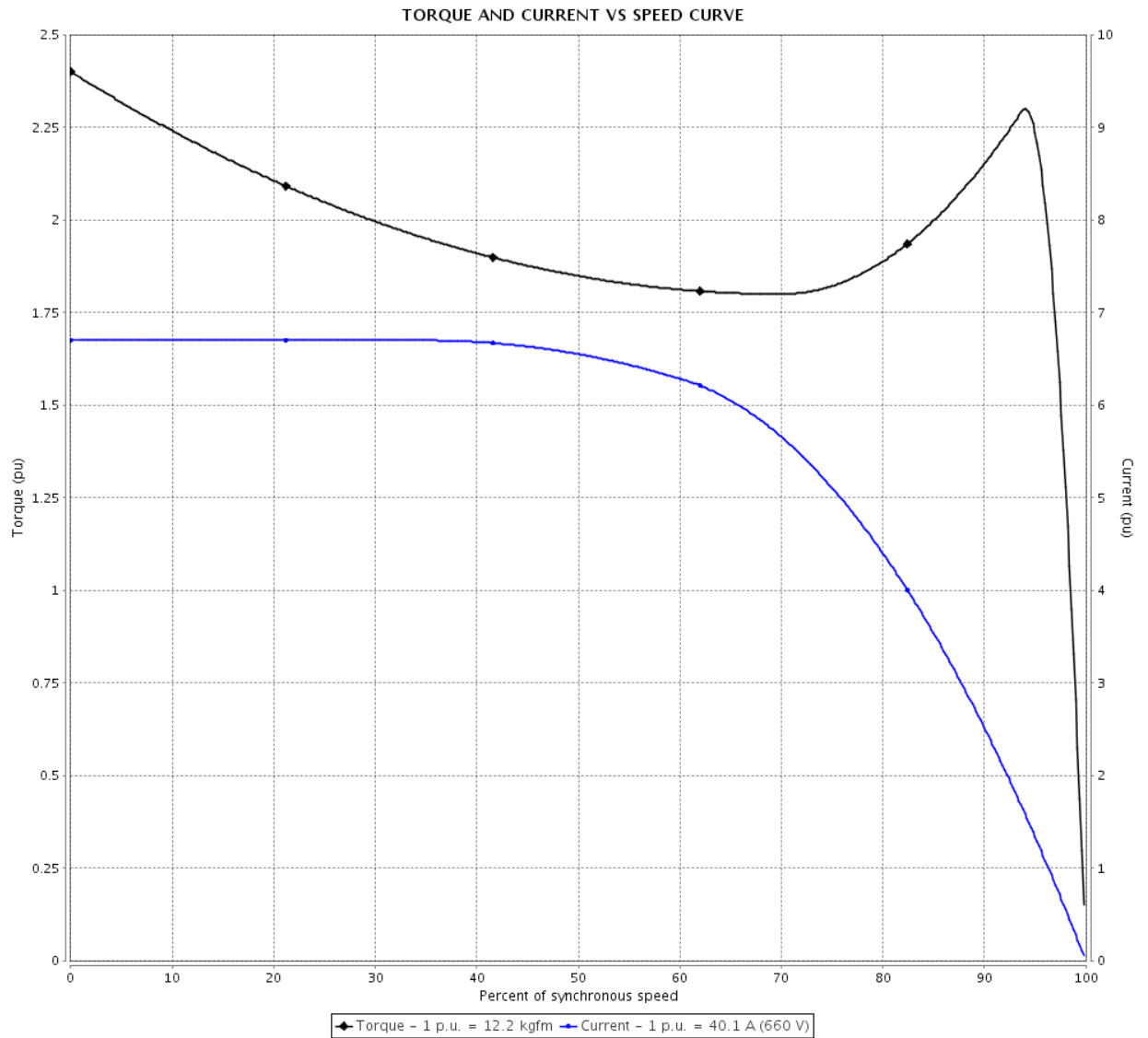
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Product code : 11304358



Performance : 380/660 V 50 Hz 2P

Rated current : 69.7/40.1 A
 LRC : 6.7
 Rated torque : 12.2 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 229 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.1950 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Locked rotor time : 28s (cold) 16s (hot)

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

LOAD PERFORMANCE CURVE

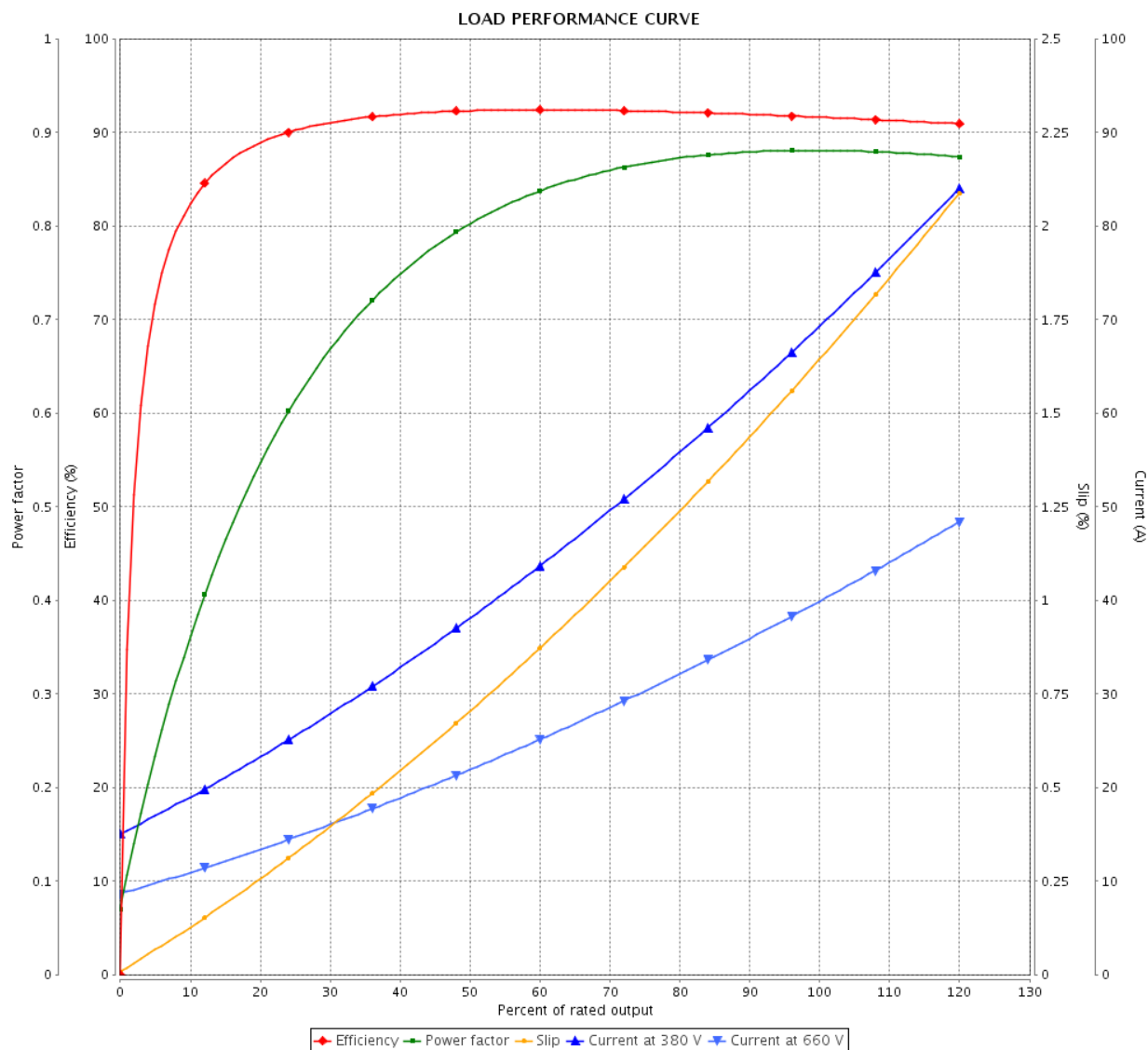
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Customer :

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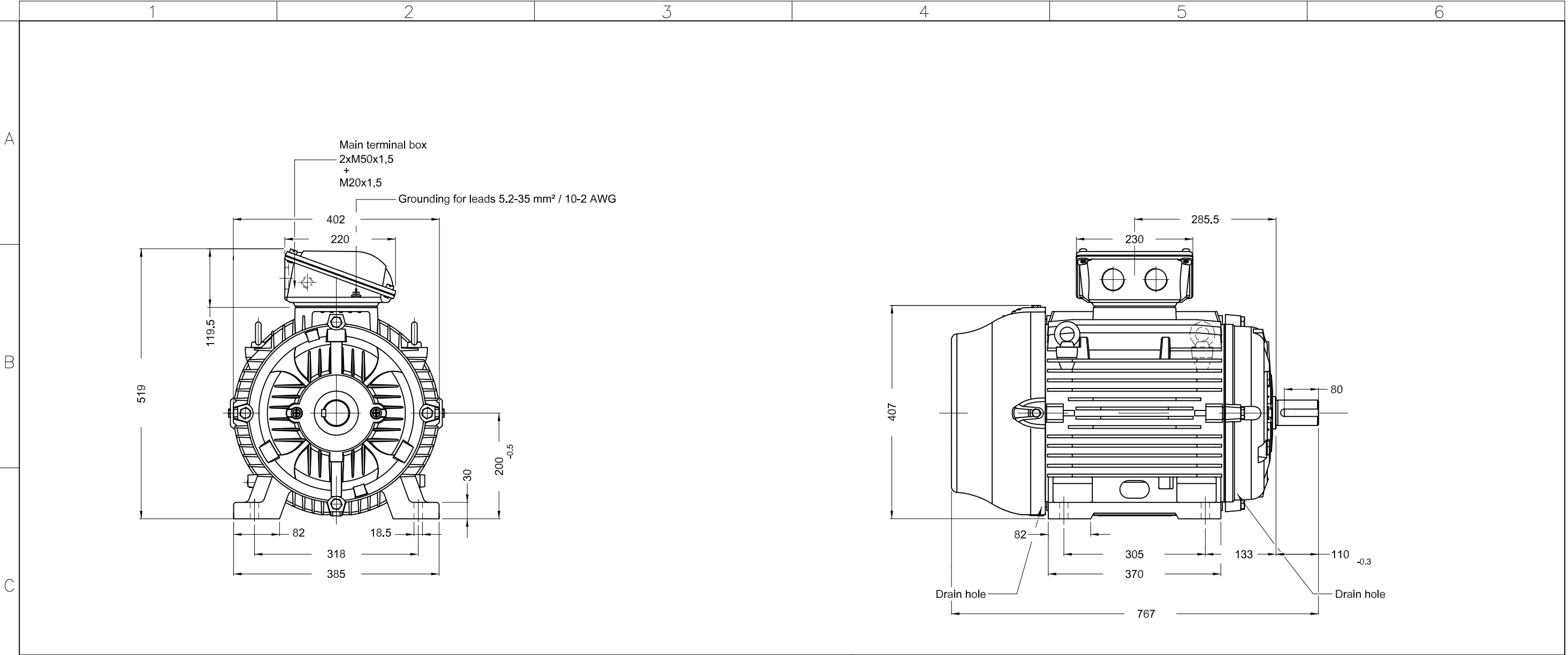


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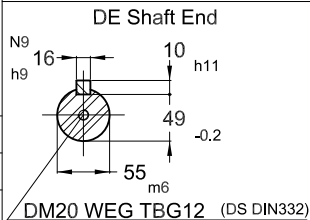
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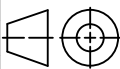
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Color RAL 5009
Painting plan 203A
Mounting B3T



37 kW 02 Poles 50 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE W22 MOTOR FRAME 200L IP55 TEFC				PREVIEW WDD				
CHECKED										
RELEASED										
REL DT		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1		