

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: W22 IE1 Three-Phase		Product code : 11210770
Frame	: 315L	Locked rotor time	: 28s (cold) 16s (hot)	
Output	: 200 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	: 365/210 A	Protection degree	: IP55	
L. R. Amperes	: 2519/1450 A	Cooling method	: IC411 - TEFC	
LRC	: 6.9	Mounting	: B3T	
No load current	: 111/63.9 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1490 rpm	Noise level ²	: 74.0 dB(A)	
Slip	: 0.67 %	Starting method	: Direct On Line	
Rated torque	: 131 kgfm	Approx. weight ³	: 1292 kg	
Locked rotor torque	: 220 %			
Breakdown torque	: 210 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 4.41 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	94.6	94.8	94.5	Max. traction : 1581 kgf
Power Factor	0.79	0.86	0.88	Max. compression : 2874 kgf
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6319 C3	6316 C3	
Sealing	:	WSeal	WSeal	
Lubrication interval	:	11000 h	13000 h	
Lubricant amount	:	45 g	34 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
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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
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Date	21/11/2018				

TORQUE AND CURRENT VS SPEED CURVE

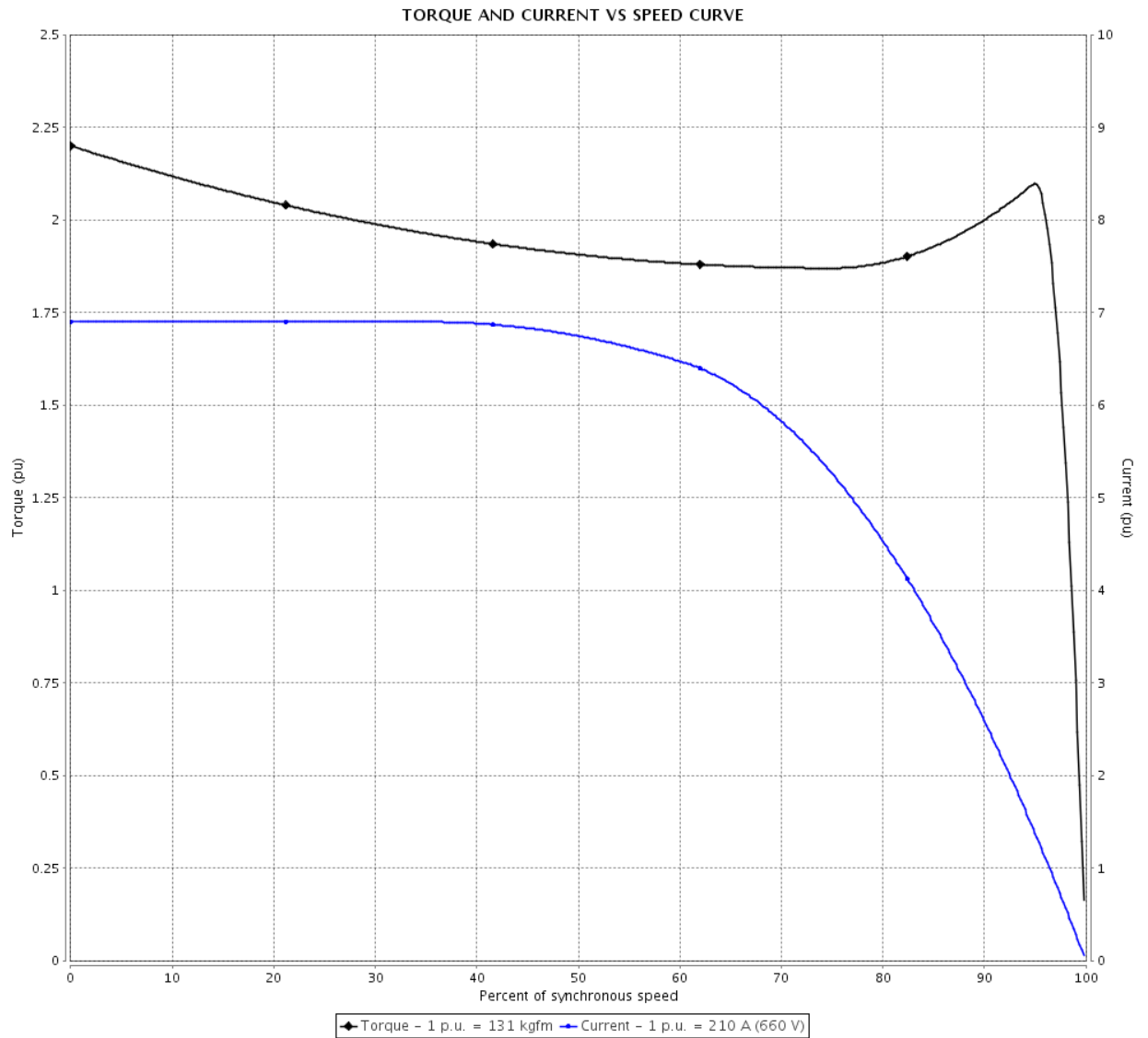
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Product code : 11210770



Performance : 380/660 V 50 Hz 4P

Rated current : 365/210 A
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Breakdown torque : 210 %
Rated speed : 1490 rpm

Moment of inertia (J) : 4.41 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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Checked by				
Date	21/11/2018			

LOAD PERFORMANCE CURVE

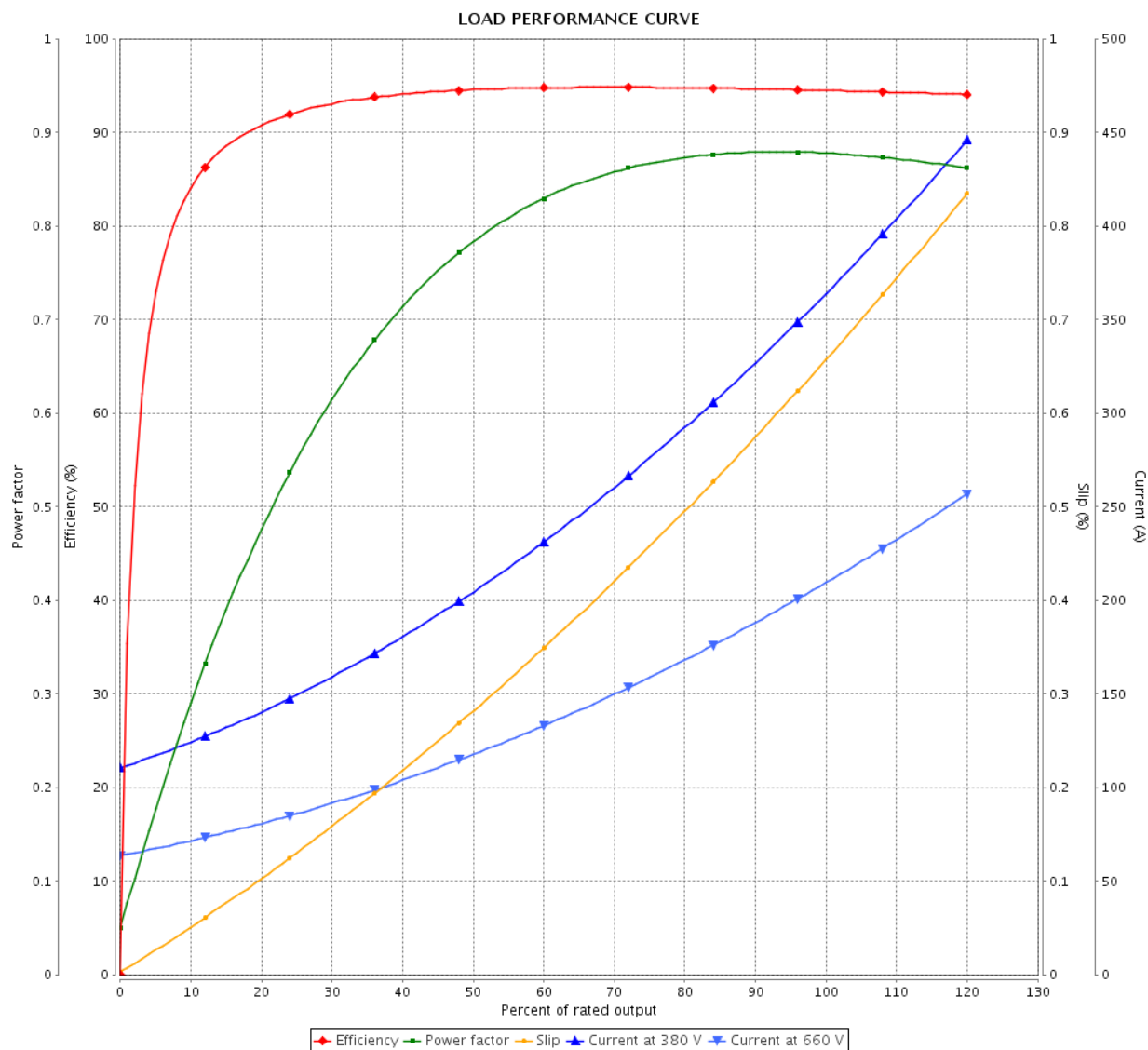
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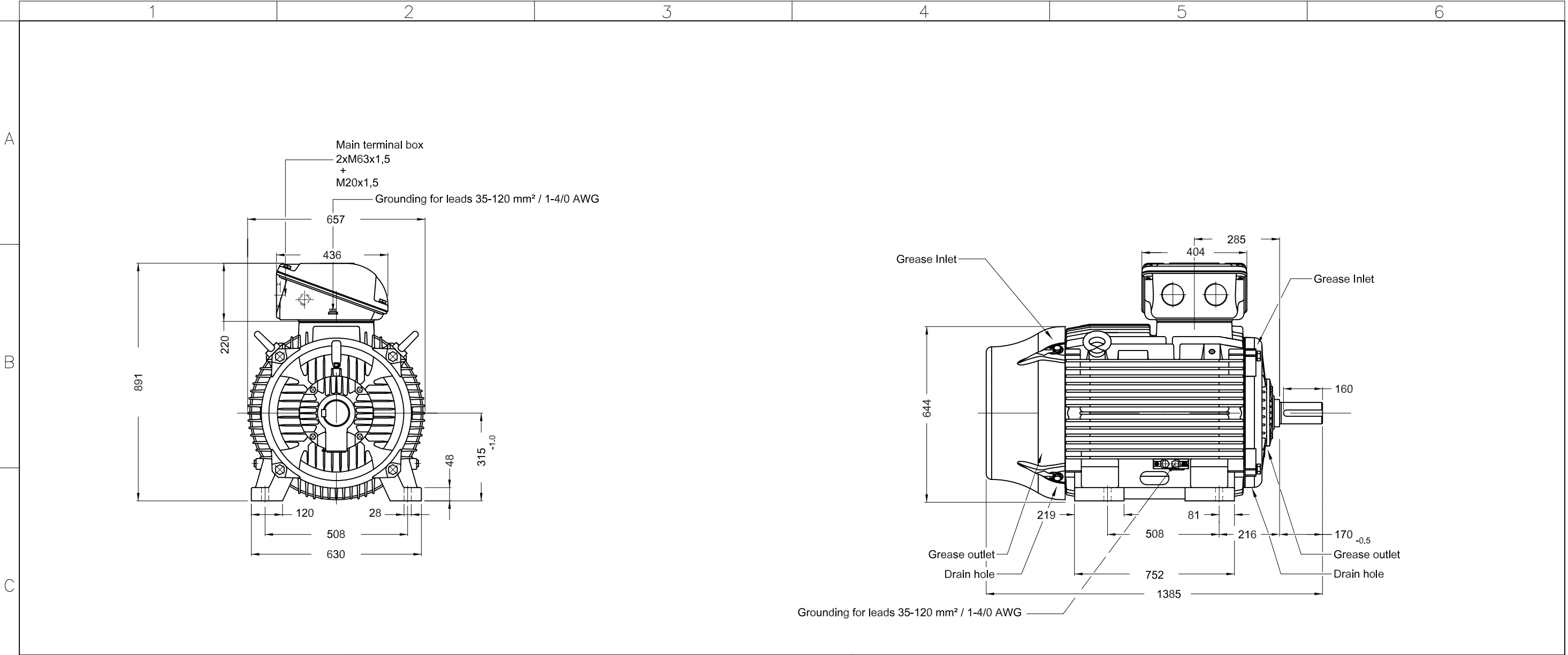


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D												
E												
Without vertical jackscrews												
NDE endshield with electrically insulated bearing hub												
Color RAL 5009												
Painting plan 203A												
Mounting B3T												
DE Shaft End												
200 kW 04 Poles 50 Hz										A		
ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	USERADMIN			THREE PHASE W22 MOTOR FRAME 315L IP55 TEFC				PREVIEW WDD				
CHECKED												
RELEASED												
REL DT			WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1						