

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : Kalasanati.com

Product line : W22 IE1 Three-Phase

Frame	: 160L	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 15 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	: 30.2/17.4 A	Protection degree	: IP55
L. R. Amperes	: 205/118 A	Cooling method	: IC411 - TEFC
LRC	: 6.8	Mounting	: B3T
No load current	: 12.2/7.02 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1465 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 2.33 %	Starting method	: Direct On Line
Rated torque	: 9.97 kgfm	Approx. weight ³	: 137 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1325 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	89.7	88.9	Max. traction	: 397 kgf
Power Factor	0.71	0.79	0.85	Max. compression	: 535 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

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	Date
Performed by				
Checked by			Page	Revision
Date	21/11/2018		1 / 4	

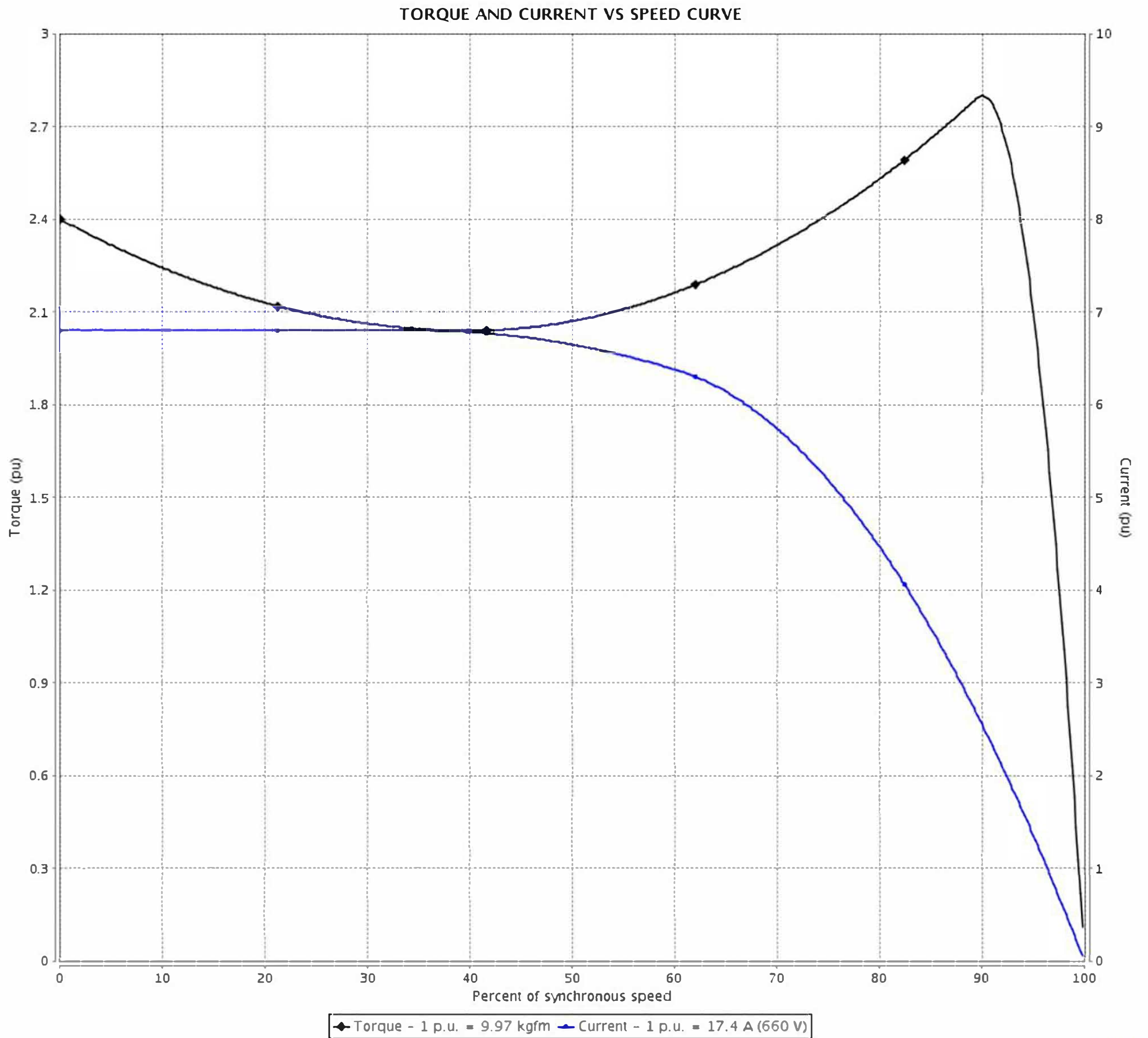
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IE1 Three-Phase



Performance : 380/660 V 50 Hz 4P

Rated current	: 30.2/17.4 A	Moment of inertia (J)	: 0.1325 kgm ²
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 9.97 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Locked rotor time : 14s (cold) 8s (hot)

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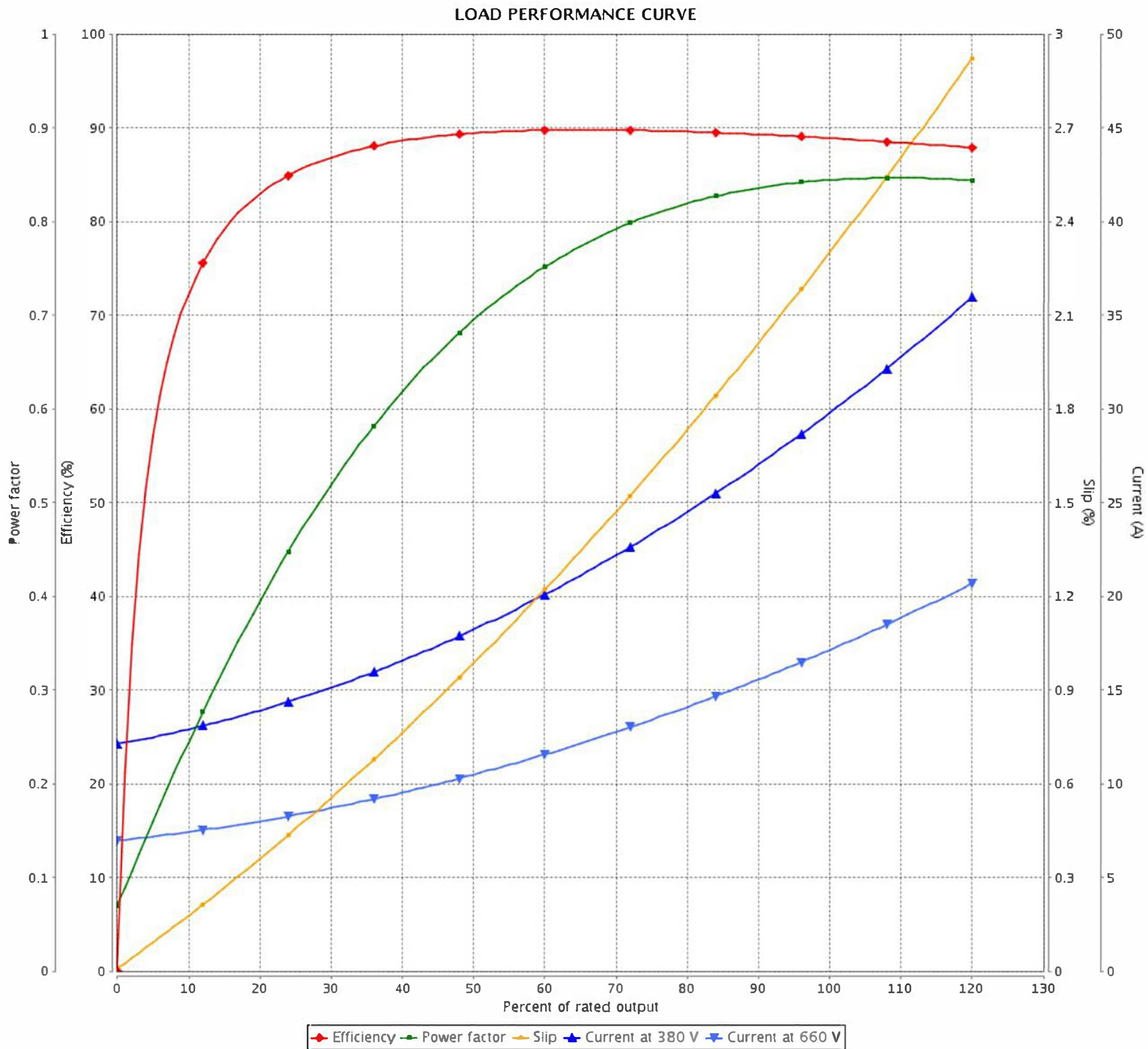
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IE1 Three-Phase



Performance : 380/660 V 50 Hz 4P

Rated current : 30.2/17.4 A
 LRC : 6.8
 Rated torque : 9.97 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.1325 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

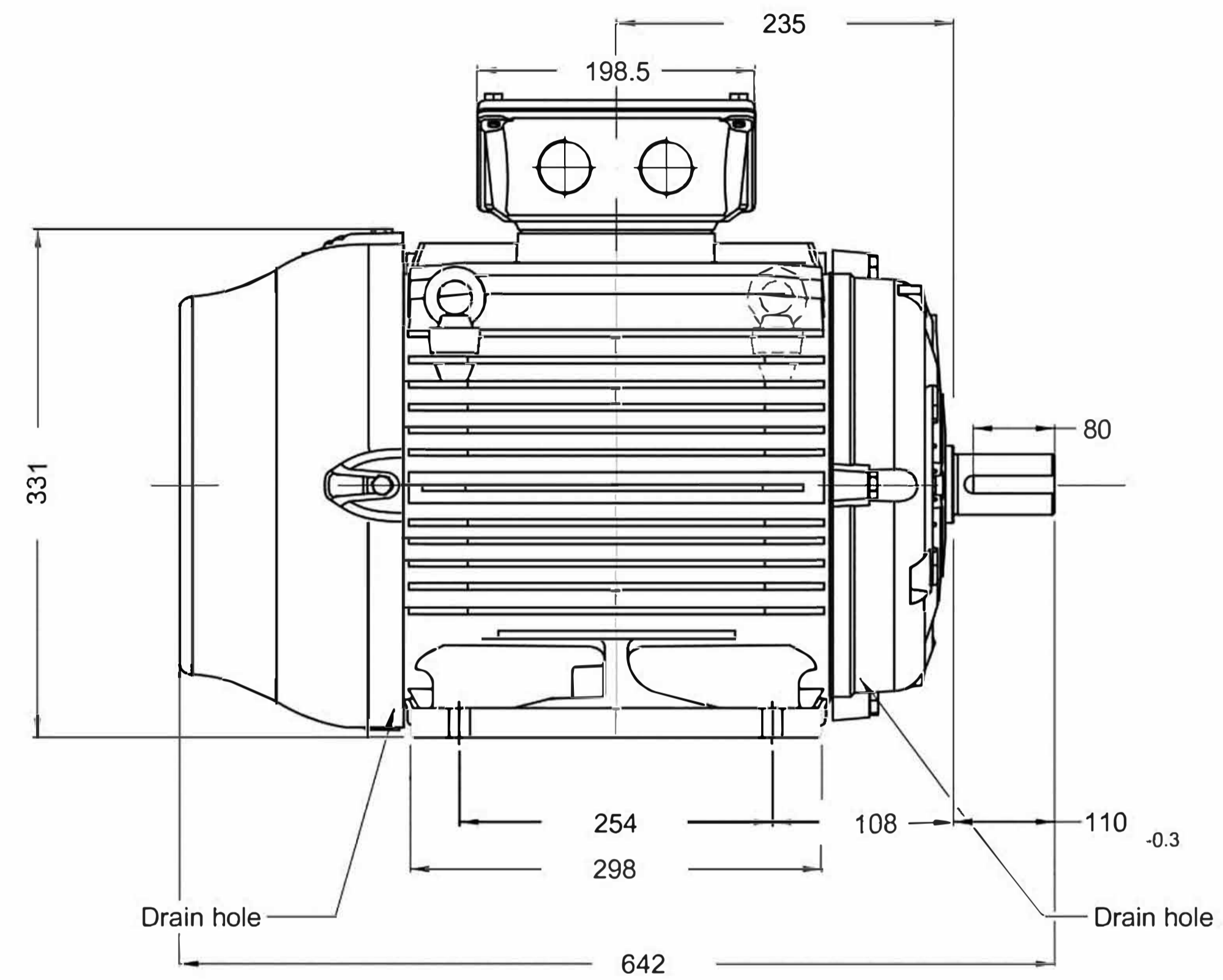
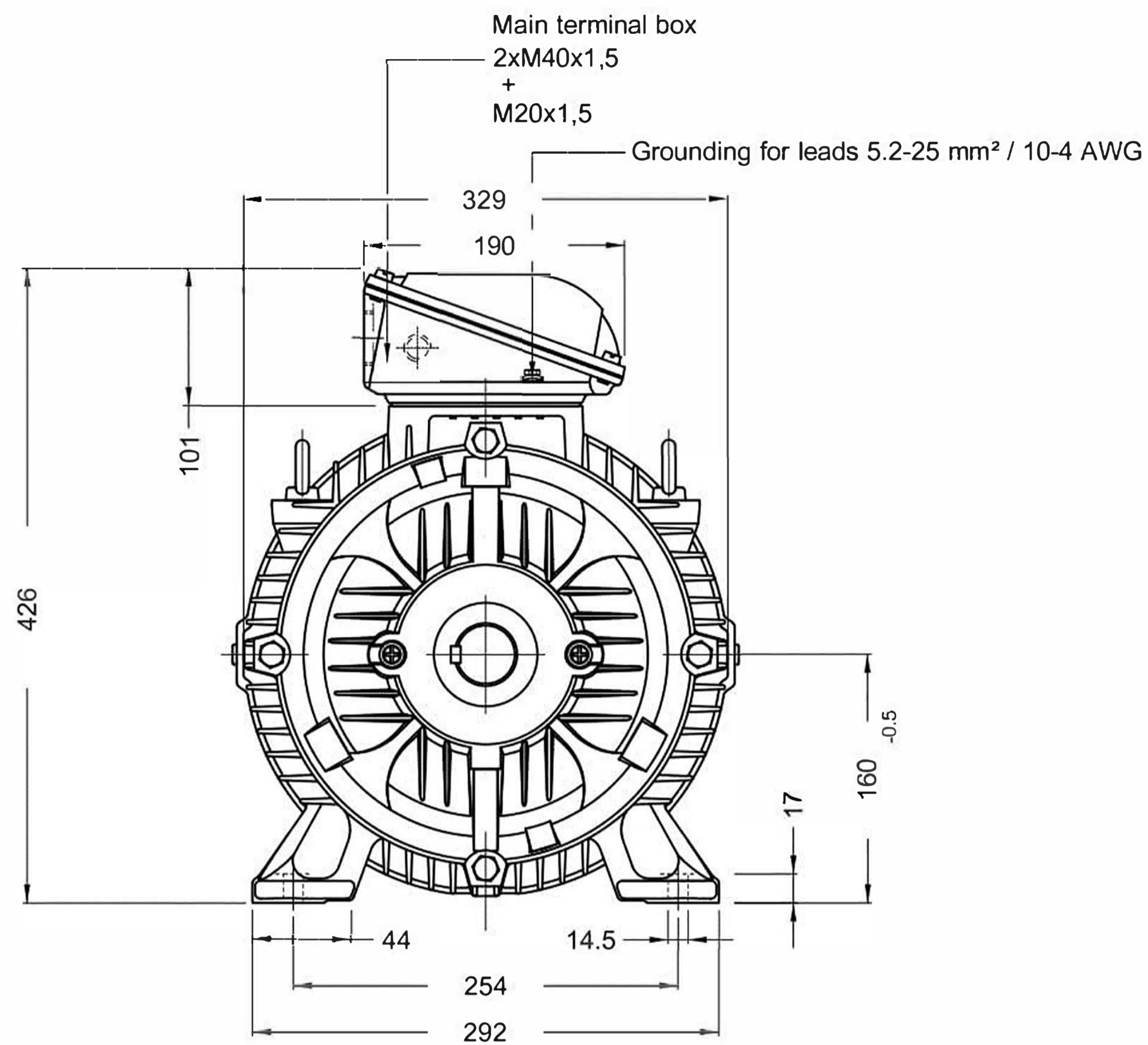
Rev.	Changes Summary	Performed	Checked	Date
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1 2 3 4 5 6

A

B

C

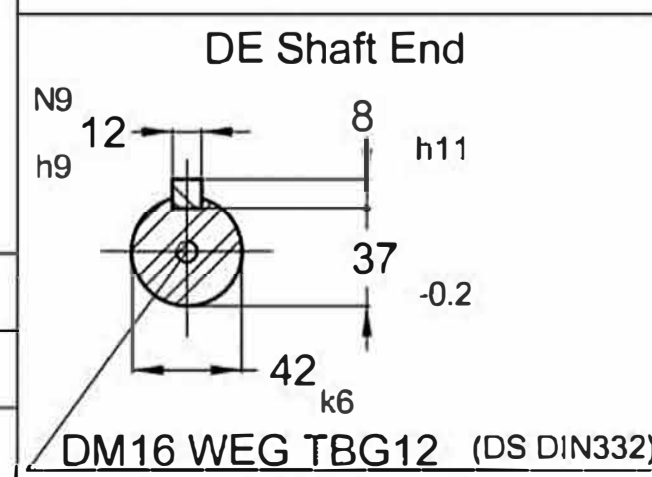


D

E

15 kW 04 Poles 50 Hz A

Color RAL 5009
Painting plan 203A
Mounting B3T



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

PREVIEW
WDD



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