

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

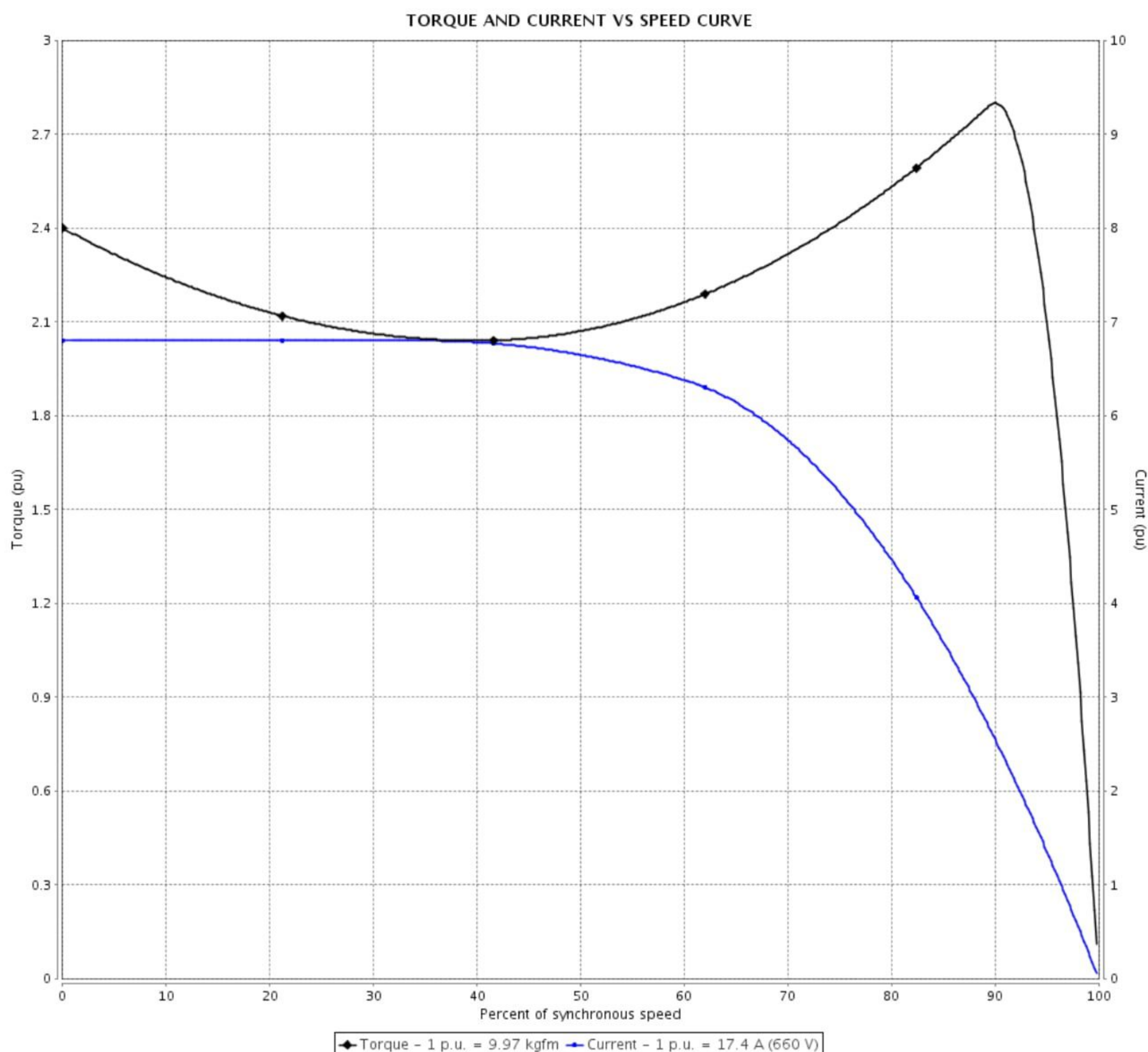
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase



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

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4		
Checked by				
Date	21/11/2018			
		Revision		

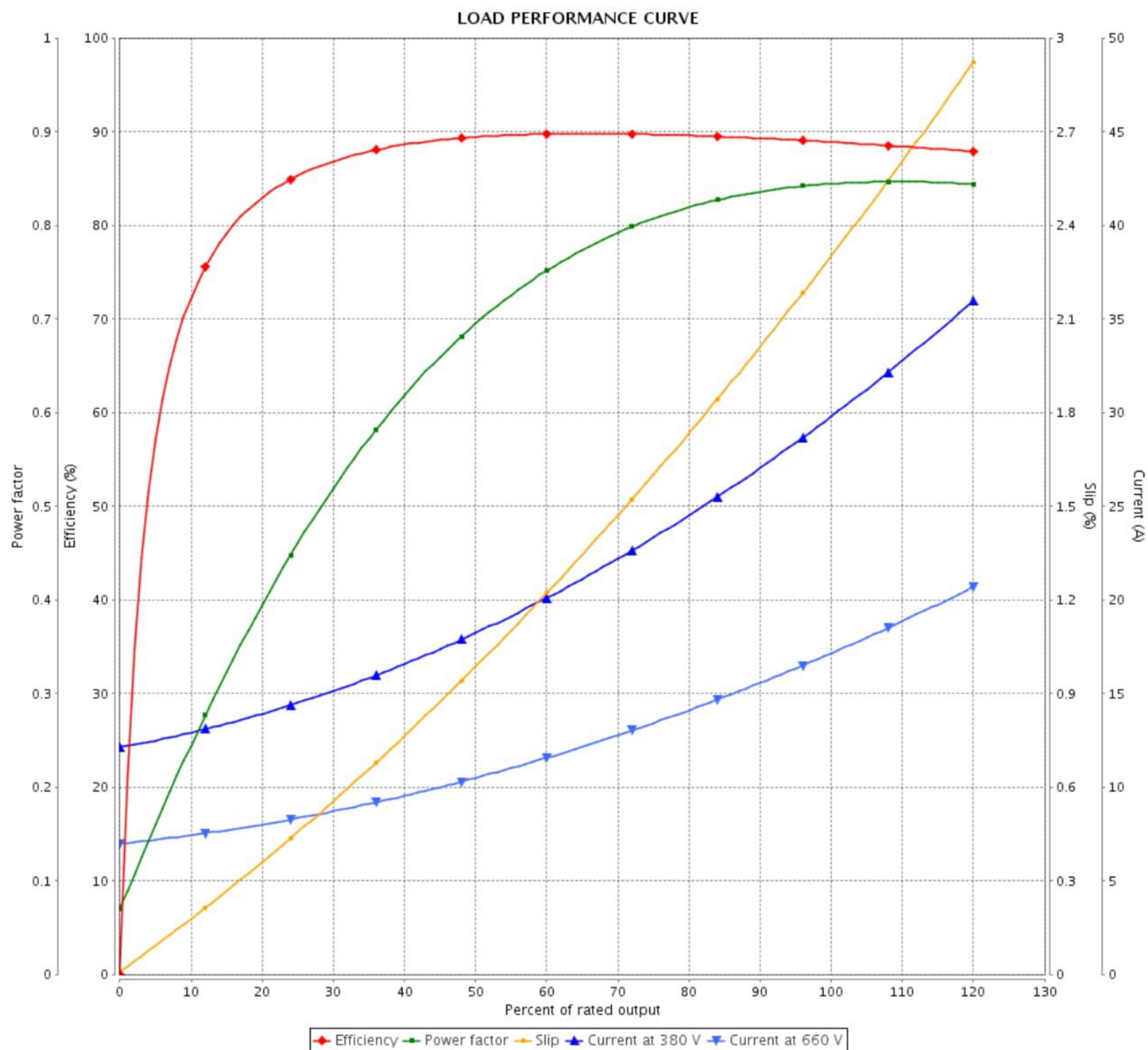
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase

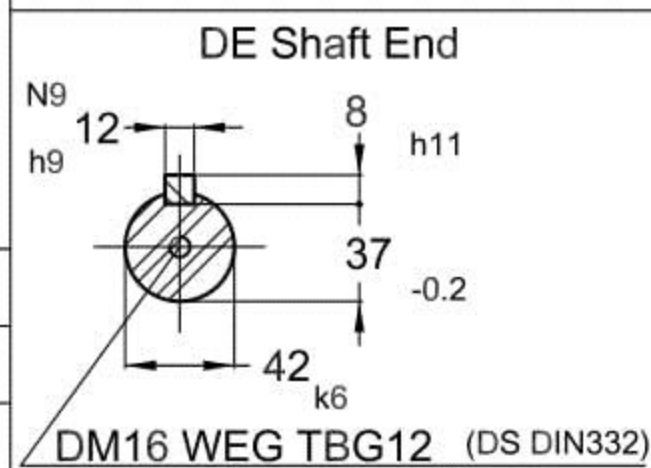
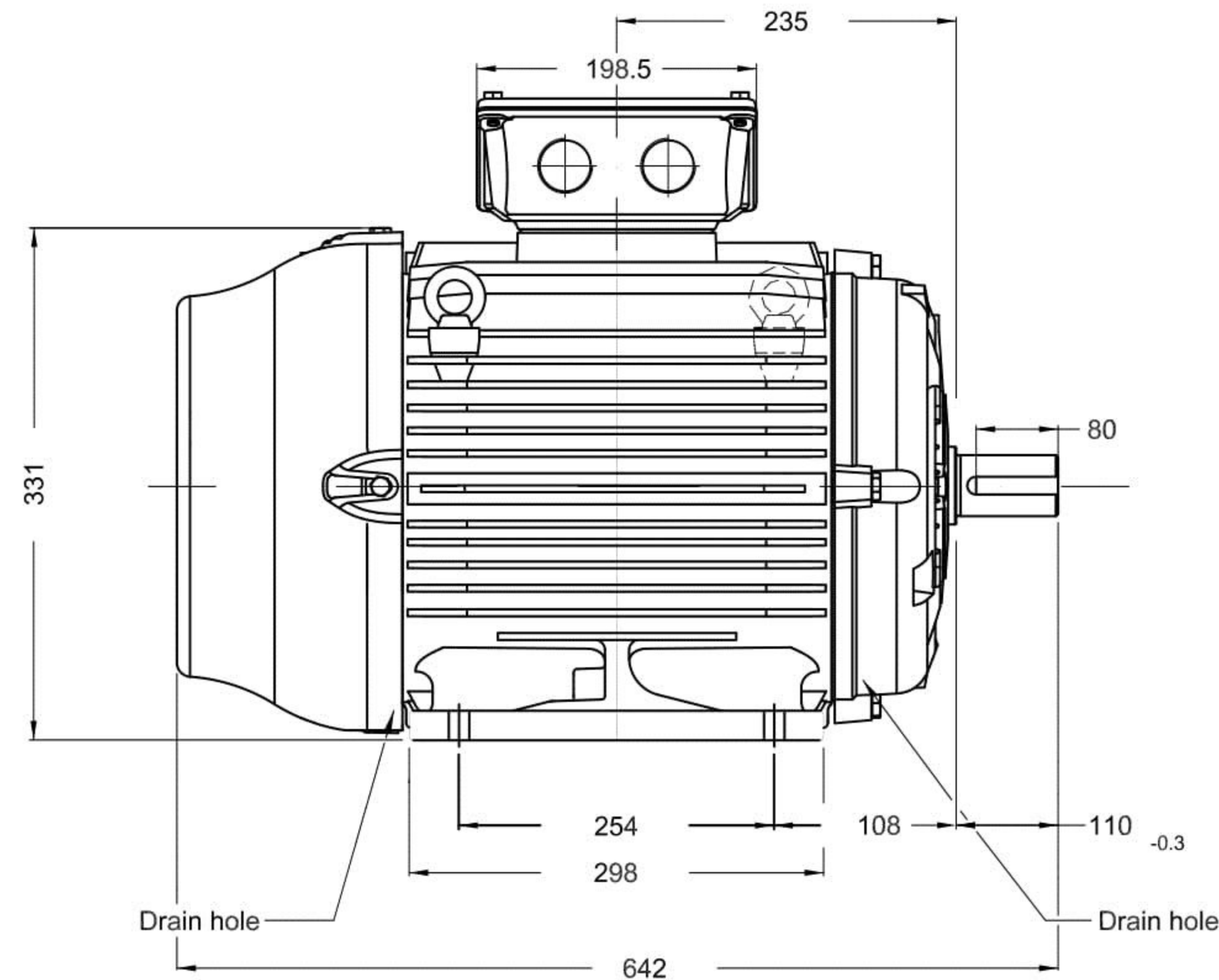
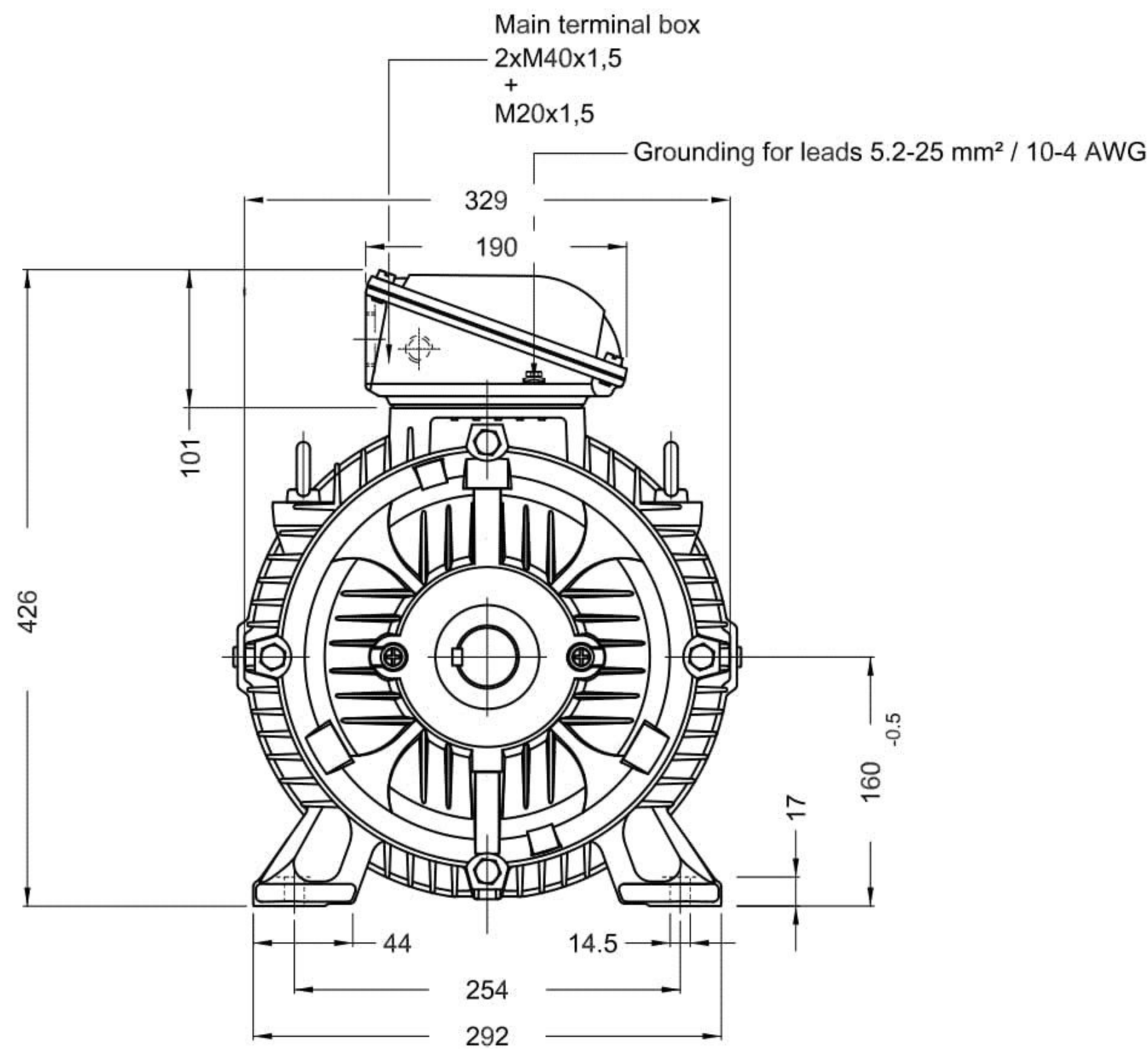


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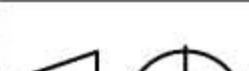
Moment of inertia (J) : 0.1325 kgm²
 Duty cycle : S1
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 Service factor : 1.00
 Temperature rise : 80 K
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Color RAL 5009
Painting plan 203A
Mounting B3T

15 kW 04 Poles 50 Hz

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			



Dimensions in mm

XME A3