PRODUCT INFORMATION PACKET

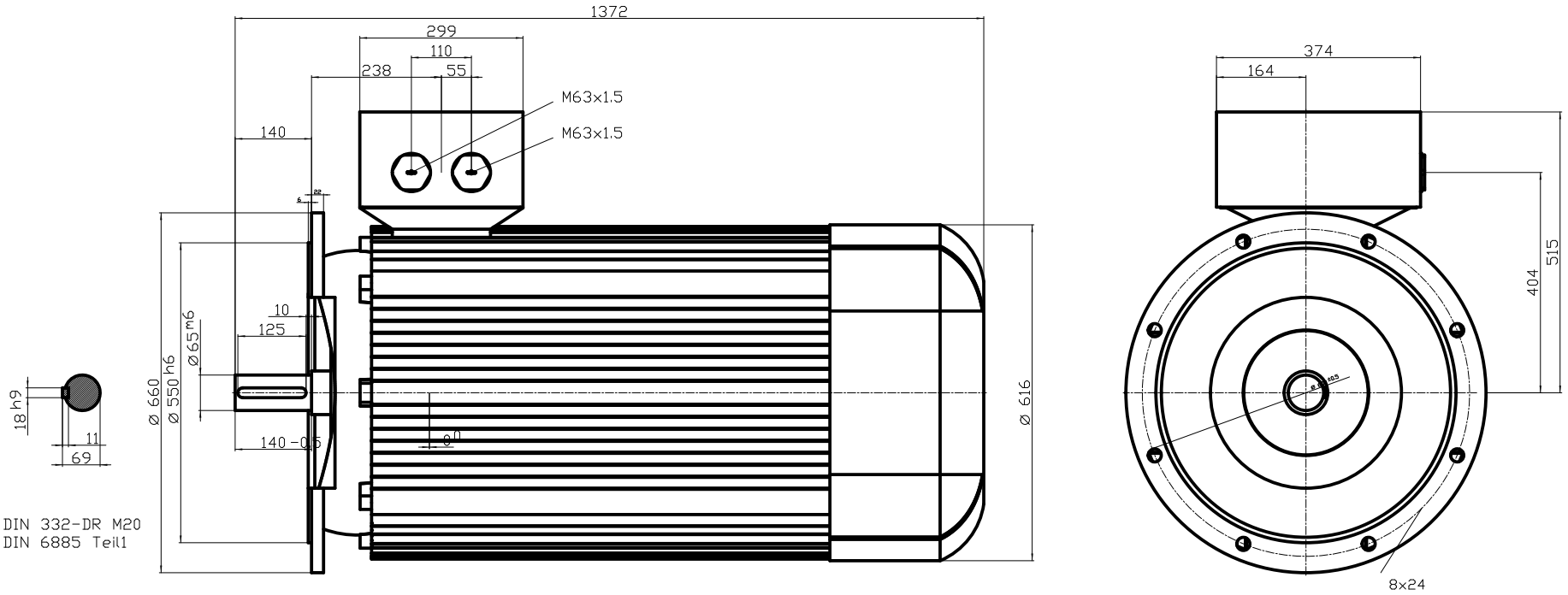
Model No: 6RN315L02E35U463011
Catalog No: 6RN315L02E35U46@3011
200.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz, 315L Frame V1, IC411

Nameplate Specifications

Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	326.40 A	Speed	2982 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.92
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316/C3	Opp Drive End Bearing Size	6316/C3
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Clockwise Shaft End
Mounting	V1	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	65 mm	Shaft Extension	140 mm
Outline Drawing	6RN315L02E35U463011		



Unit	mm
Date	30.04.13

6RN315L02E35 V1

rotor

Datasheet

rotor nl®

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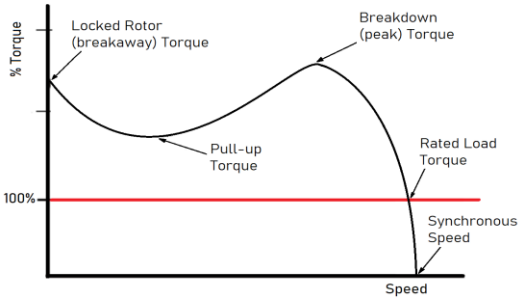
Model No. 2-Pole cage motor 6RN 315L 200kW D400V 50Hz IM3011-FF600

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL	3/4FL	1/2FL	PF at __load FL	3/4FL	1/2FL	I_A/I_N [pu]	T_A/T_N [pu]	T_K/T_N [pu]
400	D	50	200	268,1	326	2982	640	IE3	95,8	96,1	95,8	0,92	0,92	0,89	7,70	2,50	2,97
690	Y				188												
460	D	60	224	300,3	318	3582	597	IE3	95,7	95,8	95,3	0,92	0,92	0,89	7,53	2,78	2,78

Motor type	**6RN315L02E35**		Degree of protection	**IP55**	
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM3011-FF600**	
Frame Material	**Cast iron**		Cooling method	**IC411**	
Frame size	**315L**		Motor weight - approx.	**1150**	kg
Duty	**S1**		Gross weight - approx.	**1180**	kg
Voltage	**400**	V	Motor inertia	**2,3000**	kgm²
Frequency	**50**	Hz			
Power output	**200**	kW	Vibration level	**according IEC60034-14**	
			Noise level (pressure) acc 60034-9	**76**	dB(A)
Insulation class	**F**				
Ambient temperature	**-20 till 40**	°C			
Temperature rise	**temp.rise acc. B (80K)**				
Temperature rise winding	**71**	K			
Temperature rise surface	**32**	K	Direction of rotation	**cw /ccw**	
Altitude above sea level	**1000**	mtr			
Hazardous area classification	**Safe area**			**PTC 150°C**	
Rotor type	**Cage motor**				
Bearing type	**6316/C3**				
Lubrication method	**30gr/3000hrs**				
Type of grease	**Unirex N3**				
Phase resistance at 20°C	**0,0159**	Ohm			
Country of origin	**CZ**				

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	250%	766%	190%	297%	59,4 A
@ D 460V 60Hz	278%	751%	179%	278%	56,3 A

Schematic presentation of torque-speed curve



NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Voltage, Frequency are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

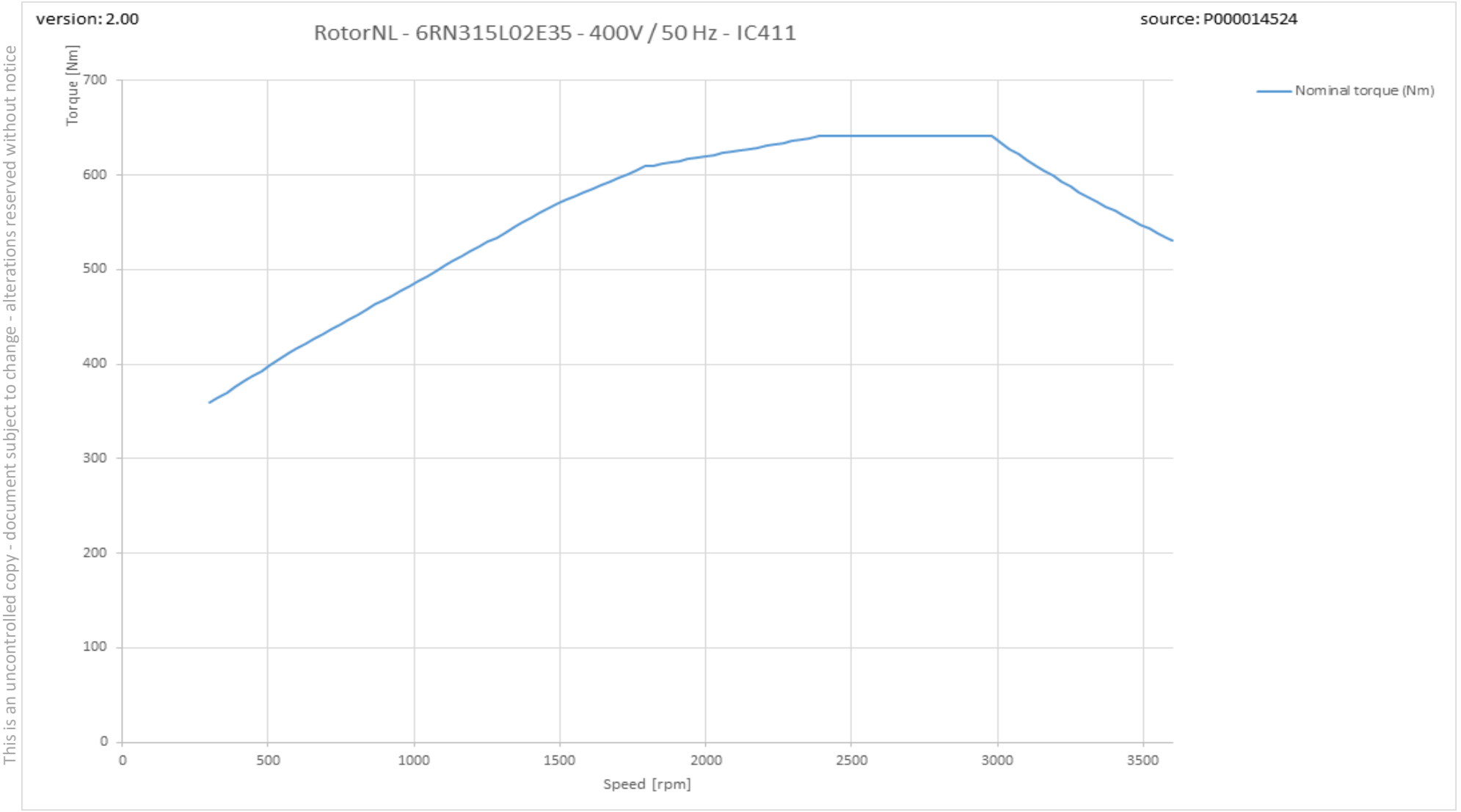
rotor is a ISO 9001 certified company

RegalRexnord

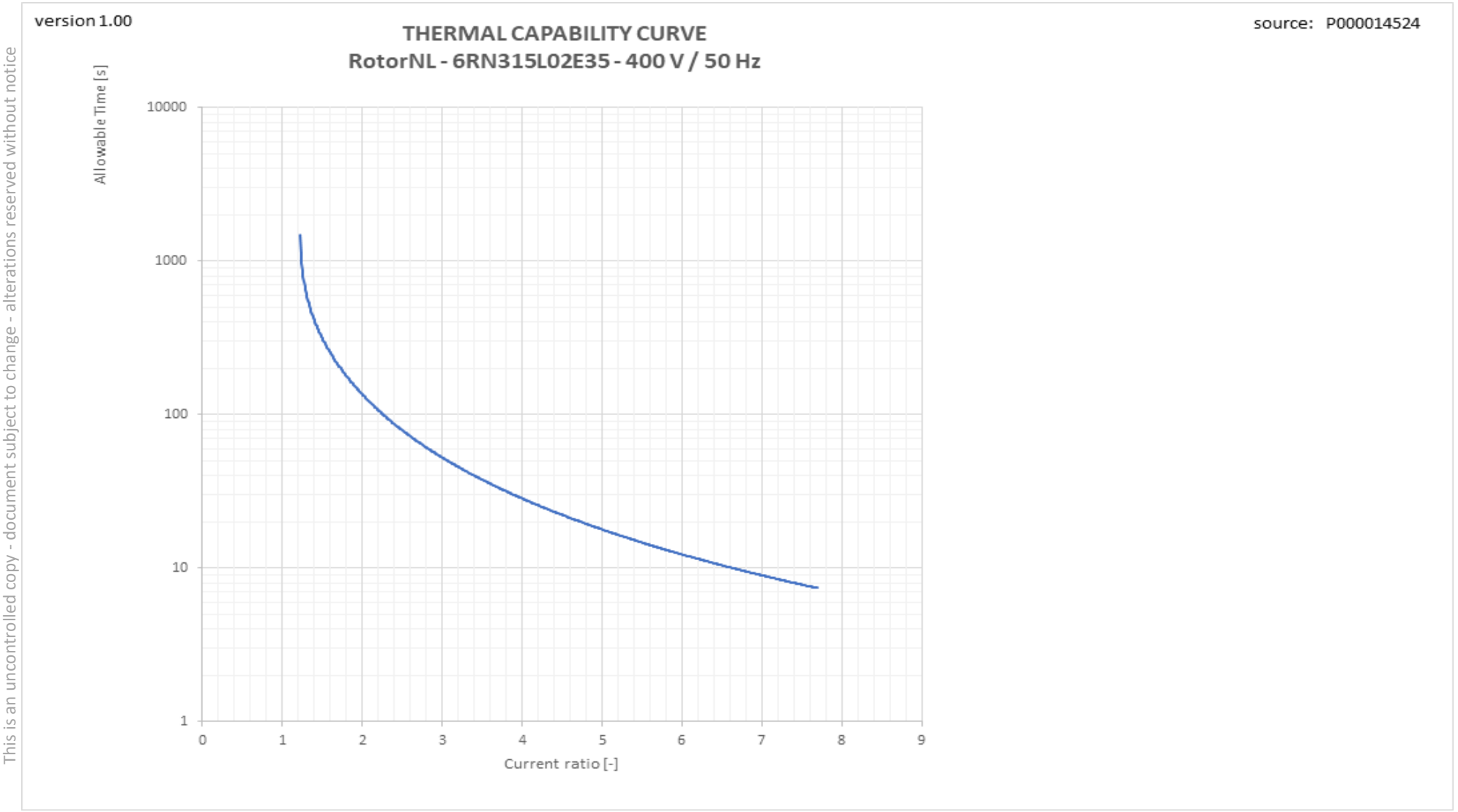
V2.07

6RN315L02E35 2-pole 200,00kW D/Y 400/690V 50Hz S1 IC411 IE3

Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph