

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN315L02E34U461041

Catalog No: 6RN315L02E34U46@1041

160.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,
315L Frame B3, IC411



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RegalRexnord



Nameplate Specifications

Output HP	215 Hp	Output KW	160.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	263.40 A	Speed	2982 rpm
Service Factor	1	Phase	3
Efficiency	95.6 %	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	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	65 mm	Shaft Extension	140 mm
Outline Drawing	6RN315L02E34U461041		

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A

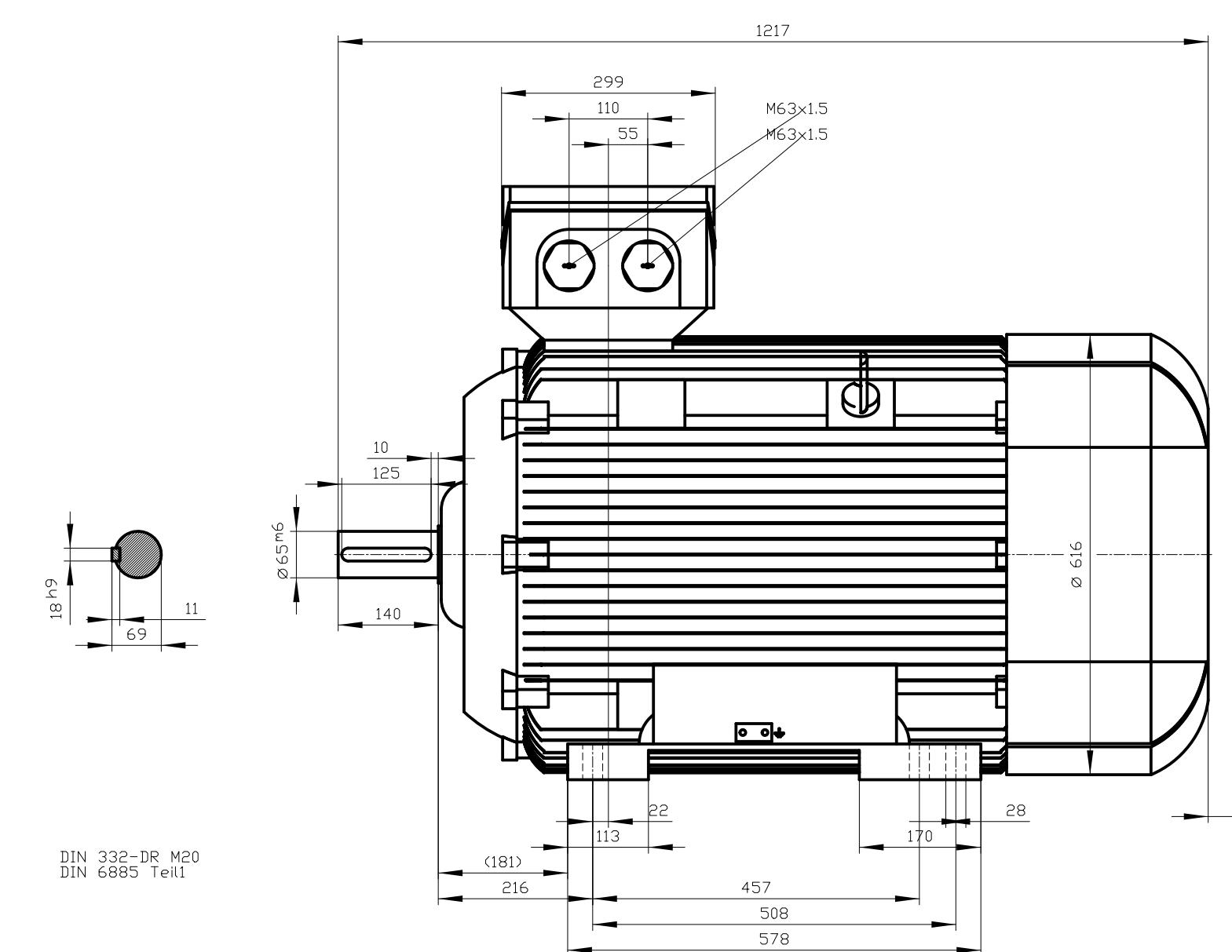
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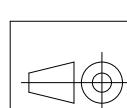
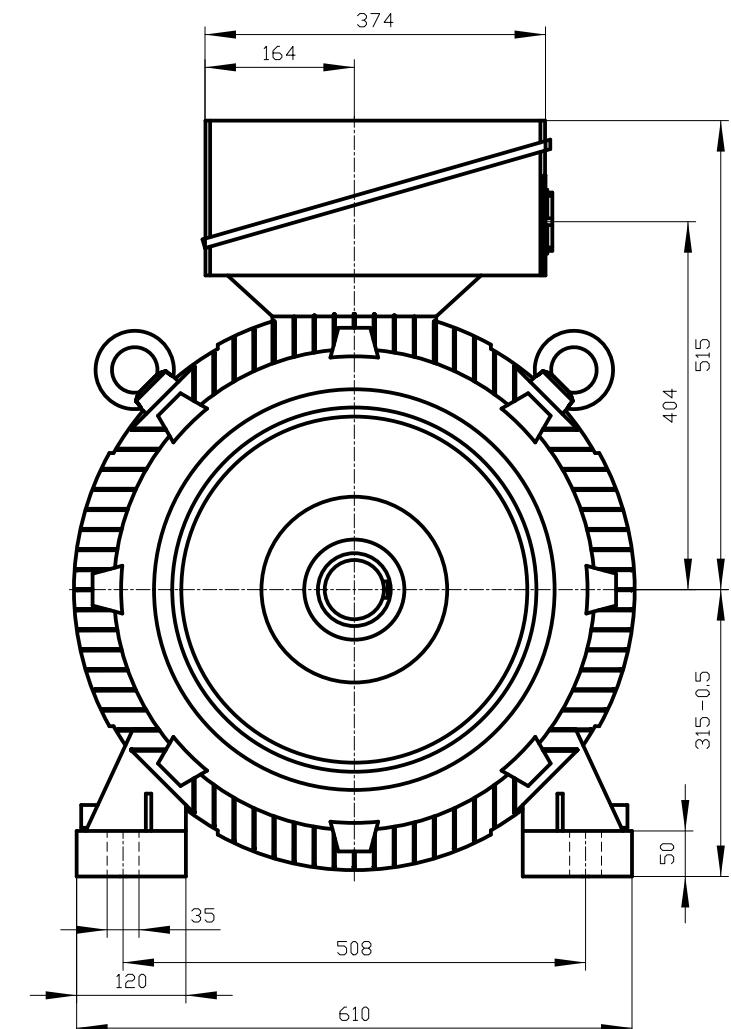
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DIN 332-DR M20
DIN 6885 Teil1



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Unit mm

Date 3/18/16

6RN315L02E34 IM1001

rotor

DT

1

2

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Datasheet


rotor B.V.

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Model No. 2-Pole cage motor 6RN 315L 160kW D400V 50Hz IM1041

U (V)	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __ load			I _A /I _N [pu]	T _A /T _N [pu]	T _R /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	8,58	2,64	3,34
400	D	50	160	214,5	263	2982	512	IE3	95,8	95,8	95,3	0,92	0,90	0,86			
690	Y				152												
460	D	60	150	200	216	3588	399	IE3	95,6	95,3	94,1	0,91	0,89	0,83	9,10	3,35	3,75

Motor type	6RN315L02E34	Degree of protection	IP55
Enclosure	Totally Enclosed Fan Cooling	Mounting type	IM1041
Frame Material	Cast iron	Cooling method	IC411
Frame size	315L	Motor weight - approx.	970 kg
Duty	S1	Gross weight - approx.	1000 kg
Voltage	400 V	Motor inertia	1,9000 kgm ²
Frequency	50 Hz	Vibration level	according IEC60034-14
Power output	160 kW	Noise level (pressure) acc 60034-9	73 dB(A)
Insulation class	F		
Ambient temperature	-20 till 40 °C		
Temperature rise	temp.rise acc. B (80K)		
Temperature rise winding	67 K		
Temperature rise surface	34 K		
Altitude above sea level	1000 mtr	Direction of rotation	cw /ccw
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	0,0188 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	264%	855%	217%	334%	56,7 A
@ D 460V 60Hz	335%	907%	180%	375%	53,8 A

NOTE

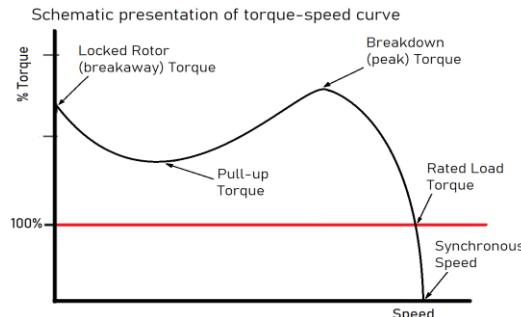
All performance values at rated voltage and frequency.

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



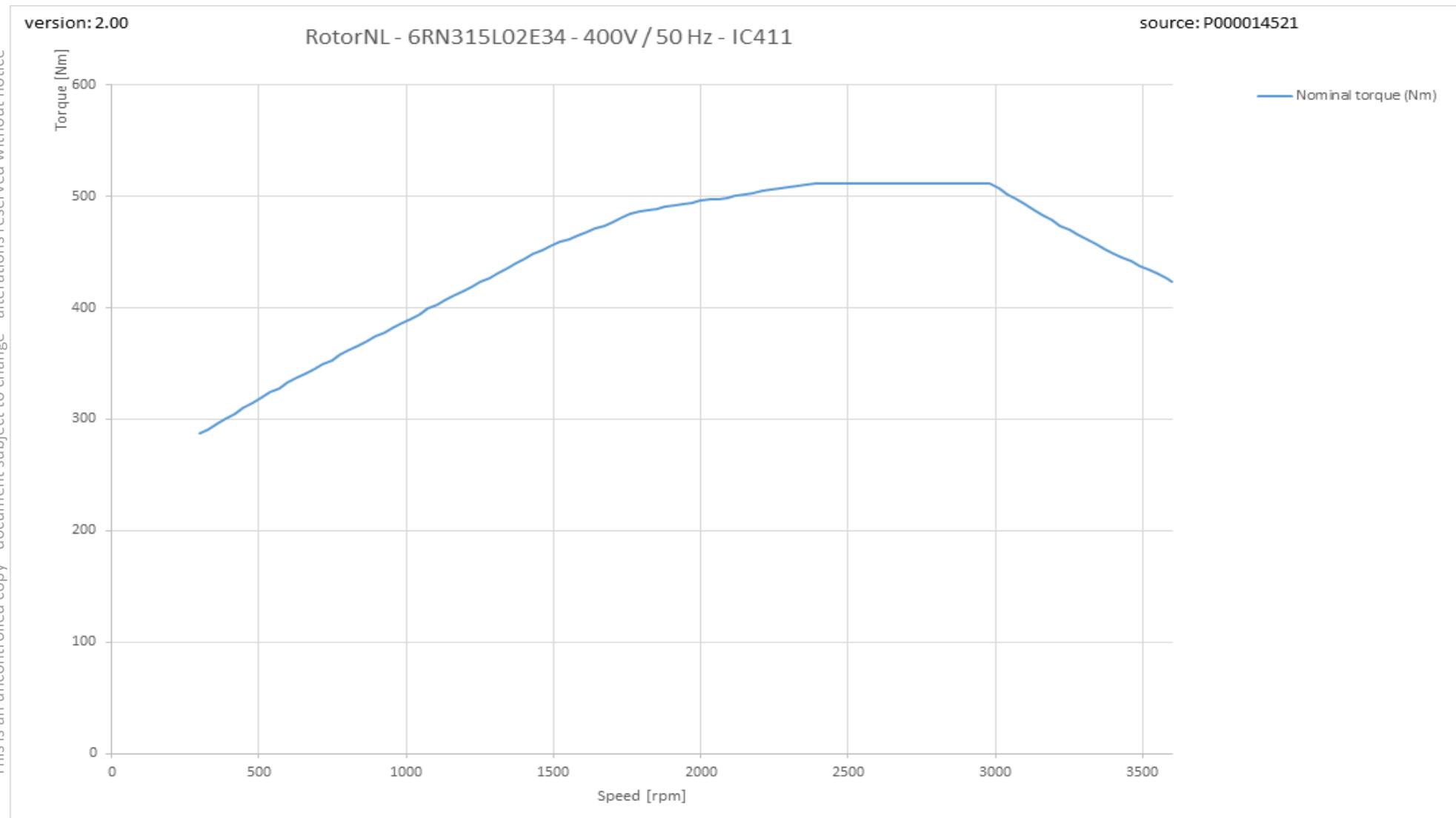
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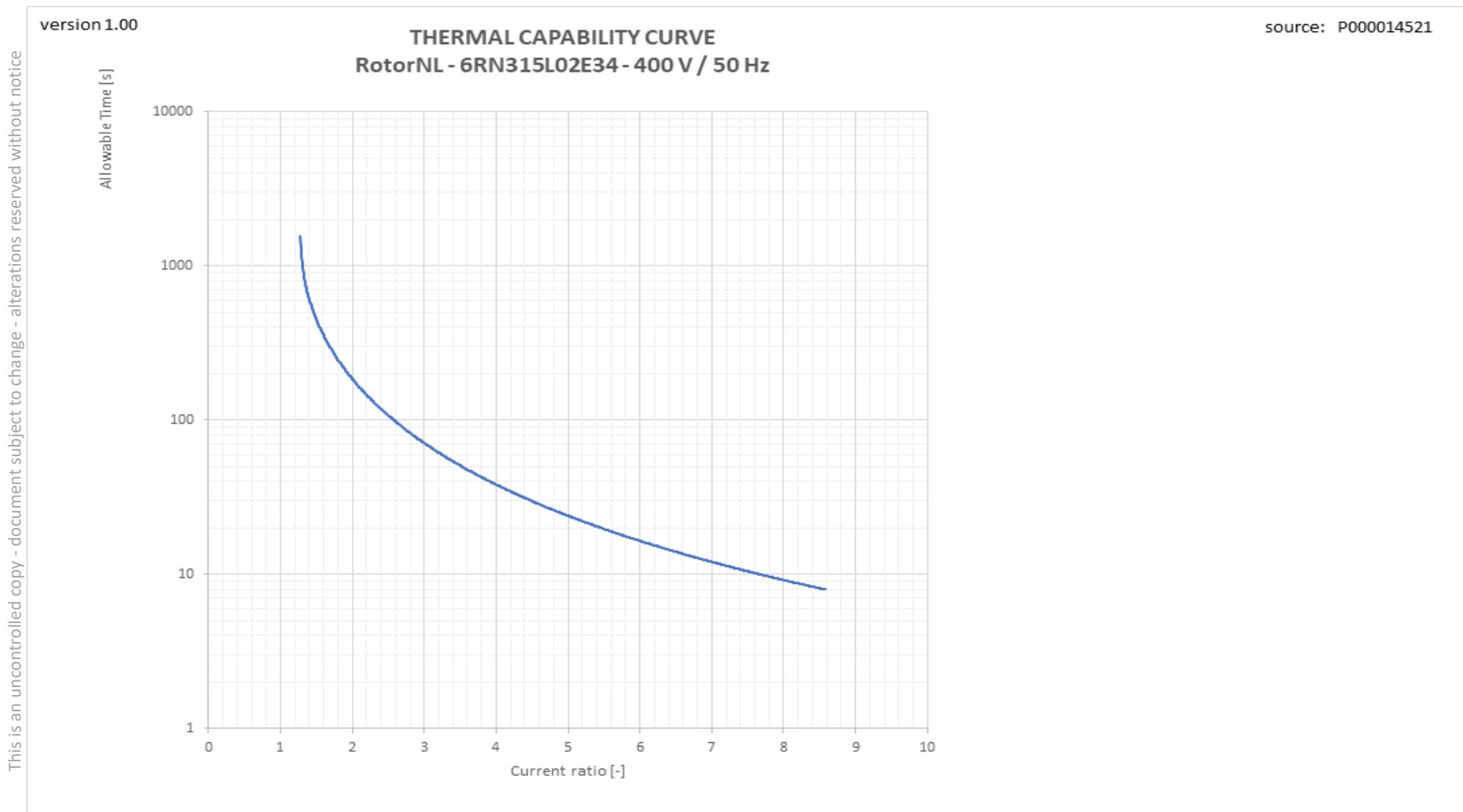
6RN315L02E34 2-pole 160,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph

