

PRODUCT INFORMATION PACKET



Model No: 6RN315L02E45U46B2021

Catalog No: 6RN315L02E45U46B@2021

200.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 3000 rpm, D400/Y690V 50Hz,
315L Frame B35, IC411

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Nameplate Specifications

Output HP	270.00 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	325.00 A	Speed	2985 rpm
Service Factor	1	Phase	3
Efficiency	96.5 %	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	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN315L02E45_2041		

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Datasheet

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Model No. 2-Pole cage motor 6RN 315L 200kW D400V 50Hz IM2021-FF600

U (V)	Δ / Y Conn	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 _K /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	200	268,1	325	2985	639	IE4	96,8	96,9	96,4	0,92	0,90	0,85	10,30	3,49	3,90
690	Y				187												
460	D	60	224	300,3	320	3585	596	IE4	96,6	96,5	95,9	0,92	0,90	0,86	10,30	3,61	3,65

Motor type	6RN315L02E45
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	200 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	62 K
Temperature rise surface	26 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6316/C3
Lubrication method	30gr/3000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0126 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	349%	1027%	263%	390%	73,7 A
@ D 460V 60Hz	361%	1025%	244%	365%	69,4 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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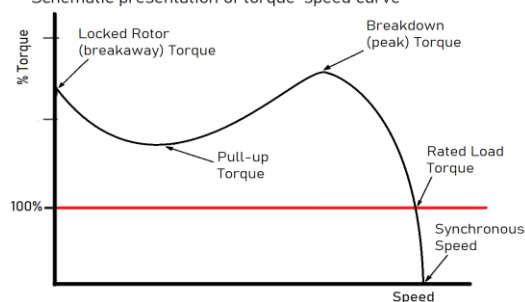
Degree of protection	IP55
Mounting type	IM2021-FF600
Cooling method	IC411
Motor weight - approx.	1200 kg
Gross weight - approx.	1240 kg
Motor inertia	2,4000 kgm ²

Vibration level according IEC60034-14

Direction of rotation cw /ccw

PTC 150°C

Schematic presentation of torque-speed curve



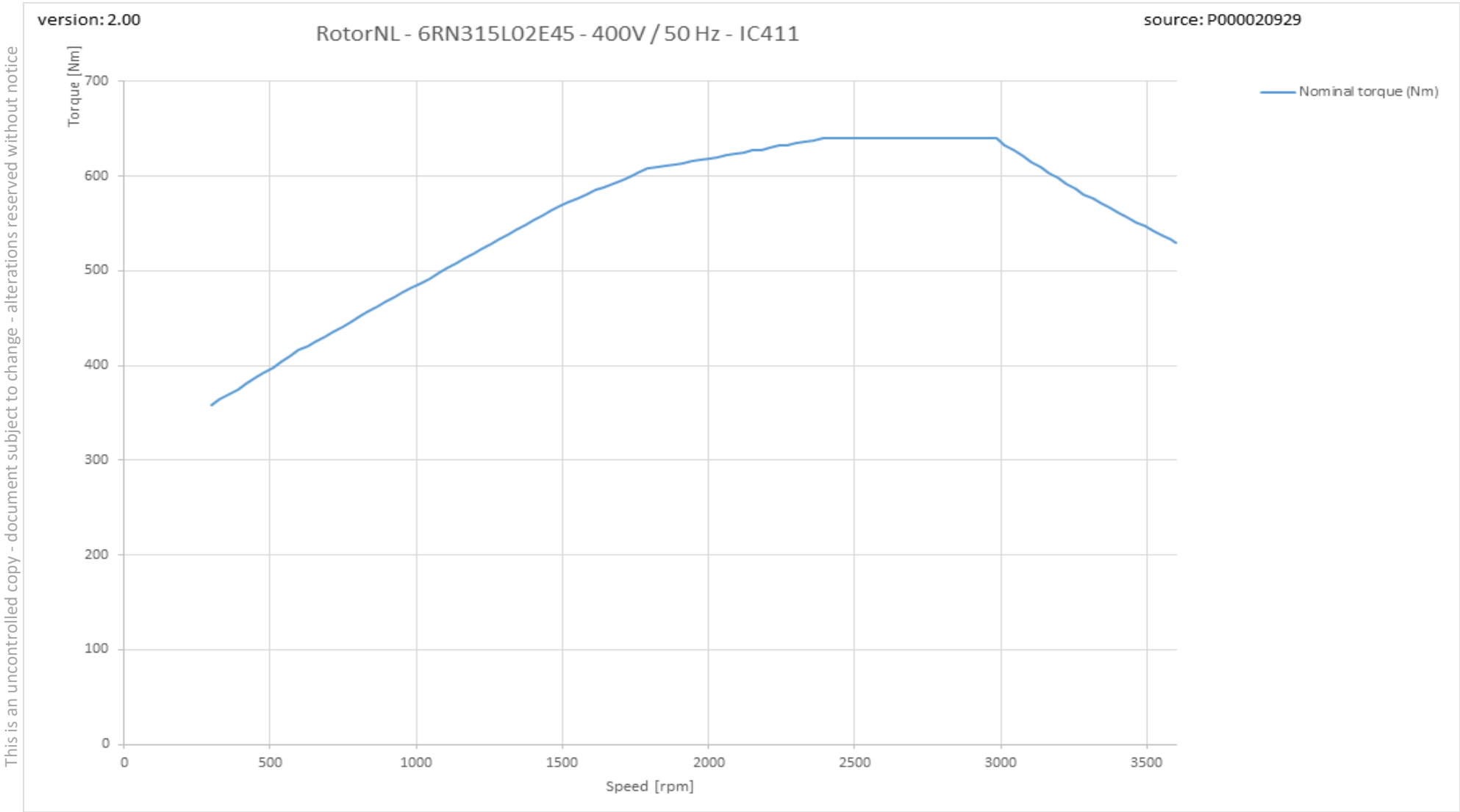
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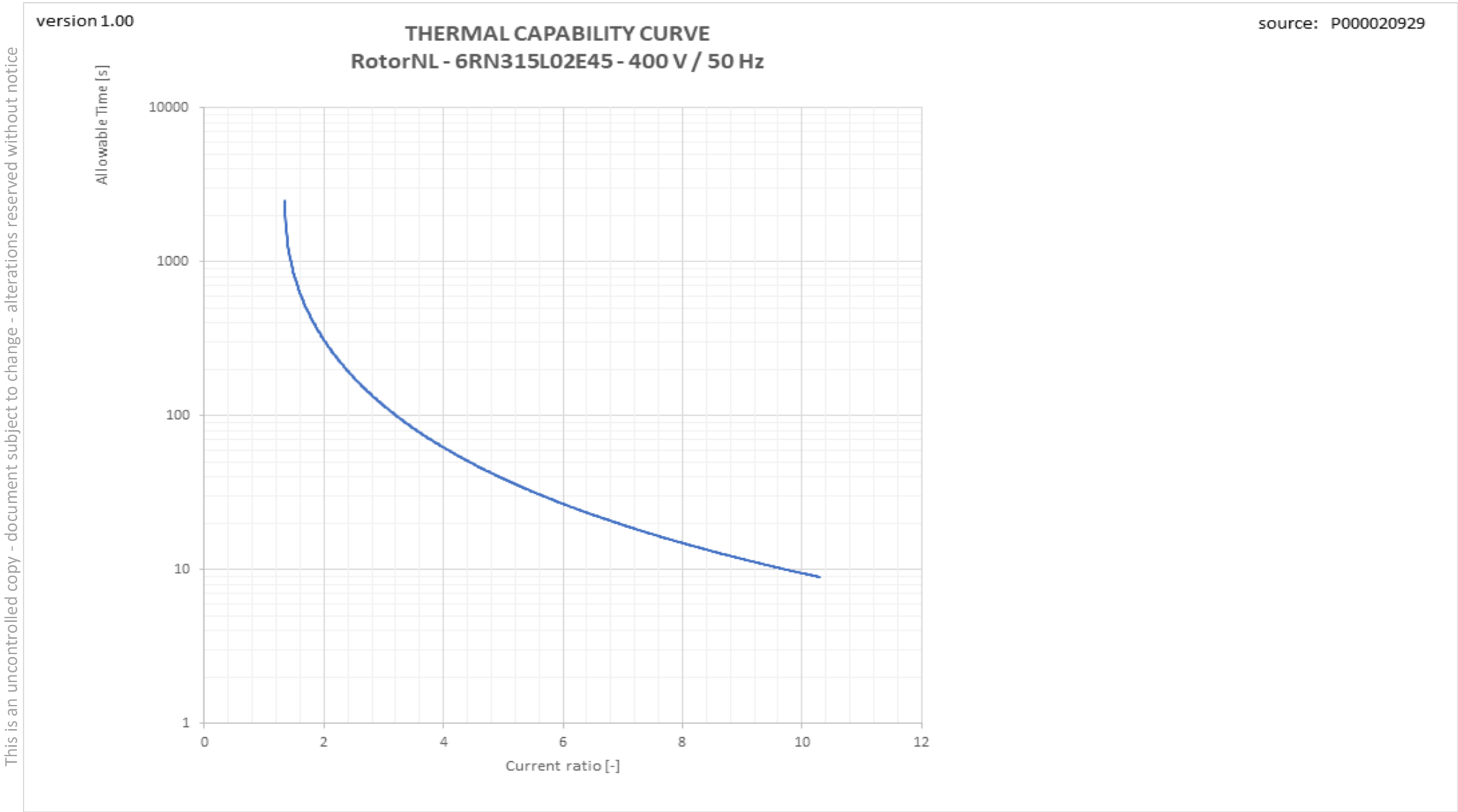
6RN315L02E45 2-pole 200,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive

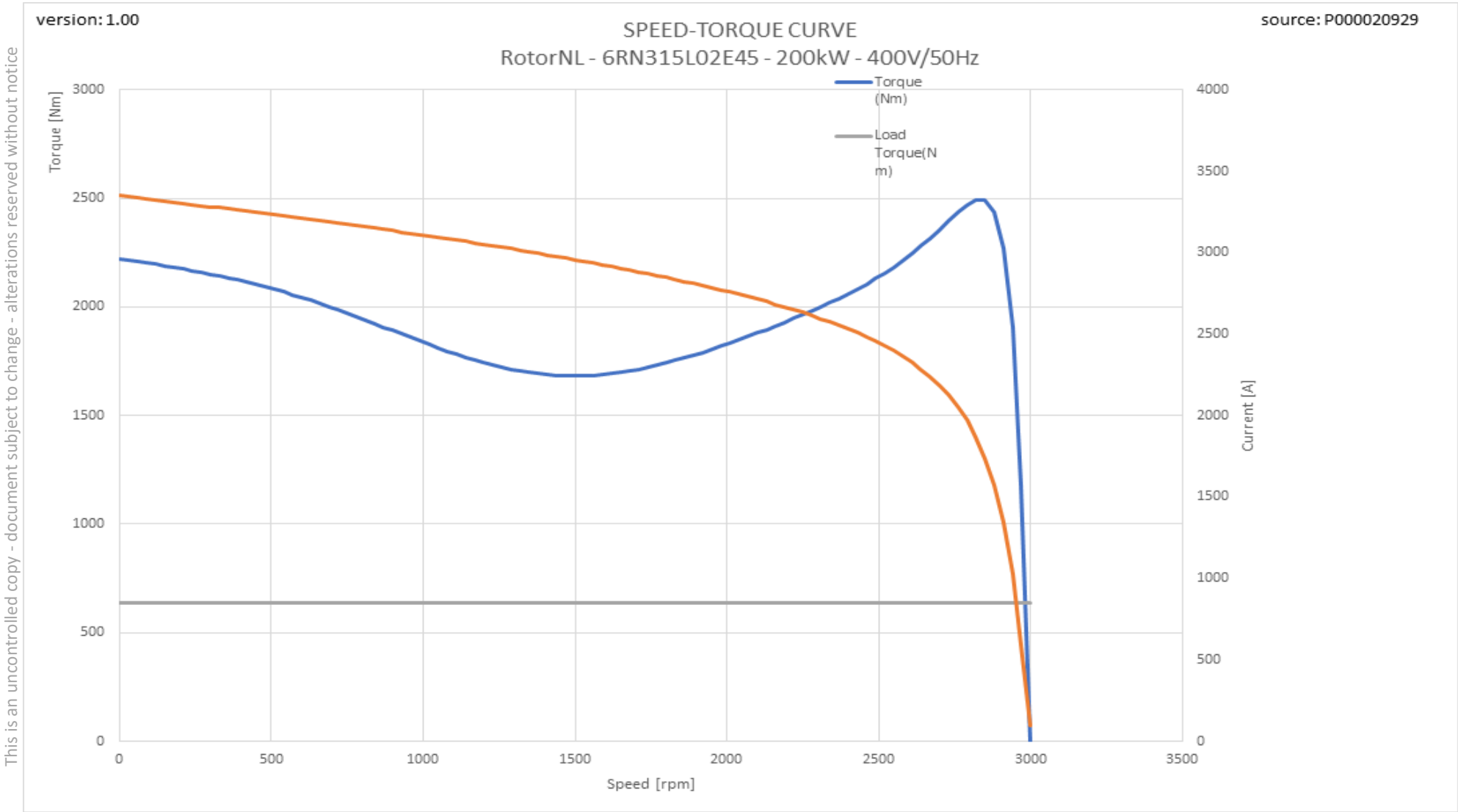


Therm_VSD graph



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Tn graph



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