

PRODUCT INFORMATION PACKET



Model No: 6RN200L04E36U243021

Catalog No: 6RN200L04E36U24@3021

37.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,
200L Frame B5, IC411



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Nameplate Specifications

Output HP	50.00 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	120.60 A	Speed	1475 rpm
Service Factor	1	Phase	3
Efficiency	93.9 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6312-2Z/C3WT (-40°C/+160°C)
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	4	Rotation	Clockwise Shaft End
Mounting	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN200L04E36_3041		

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Datasheet

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Model No. 4-Pole cage motor 6RN 200L 37kW D230V 50Hz IM3021-FF350

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			
230	D	50	37	49,6	120	1475	239	IE3	94,4	94,9	94,7	0,81	0,76	0,66	8,14	3,03	3,53
400	Y				69,6												
265	D	60	42,5	56,97	118	1775	228	IE3	95,0	95,4	95,2	0,83	0,78	0,68	8,54	2,86	3,44
460	Y				68												

Motor type	6RN200L04E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	200L
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	37 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	63 K
Temperature rise surface	36 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6312-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	0,0446 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 230V 50Hz	303%	817%	279%	353%	50,8 A
@ D 265V 60Hz	286%	855%	277%	344%	46,3 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.

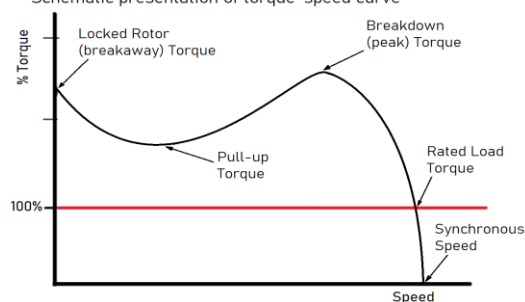
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM3021-FF350
Cooling method	IC411
Motor weight - approx.	260 kg
Gross weight - approx.	270 kg
Motor inertia	0,2750 kgm ²
Vibration level	according IEC60034-14

Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



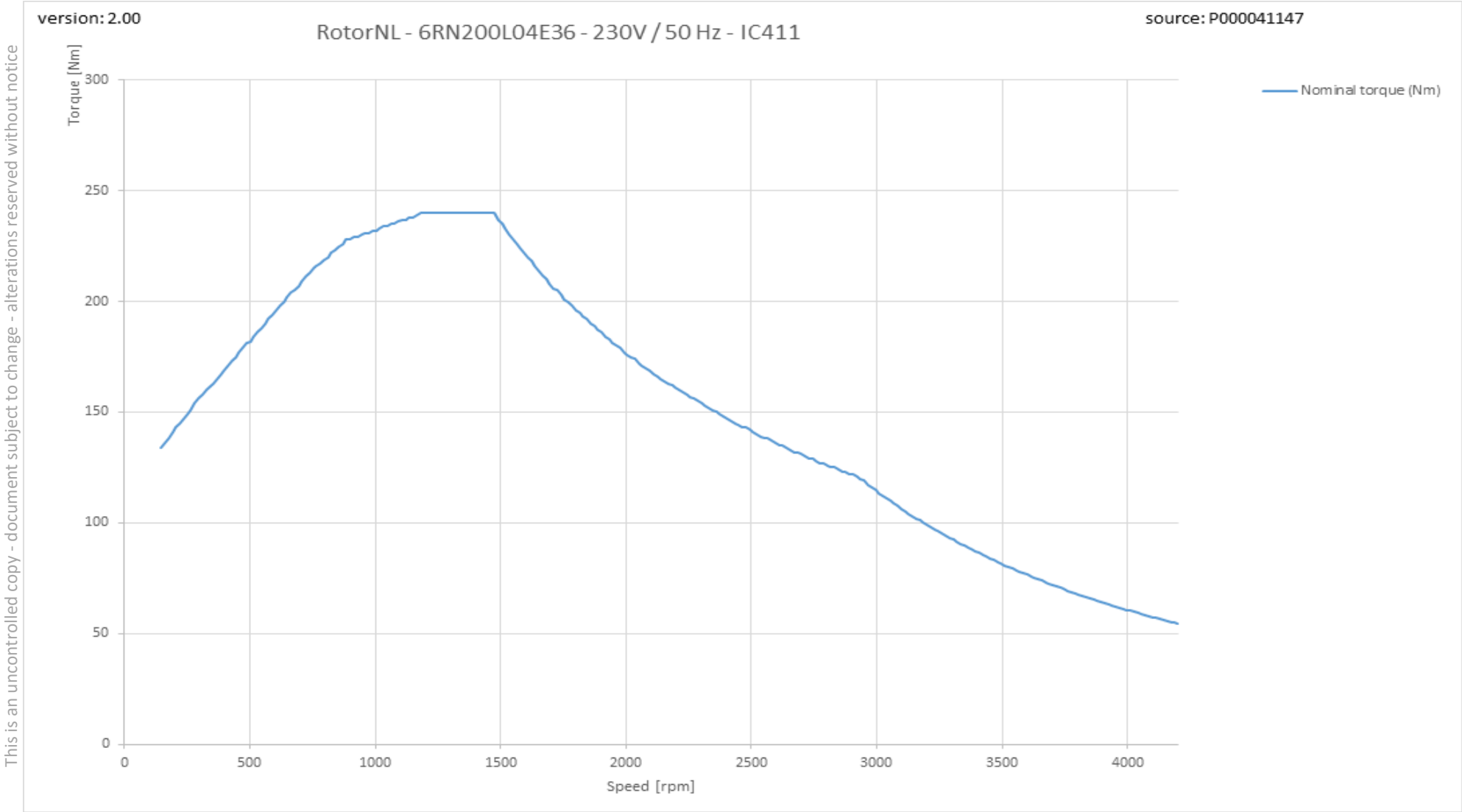
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6RN200L04E36 4-pole 37,00kW D/Y 230/400V 50Hz S1 IC411 IE3

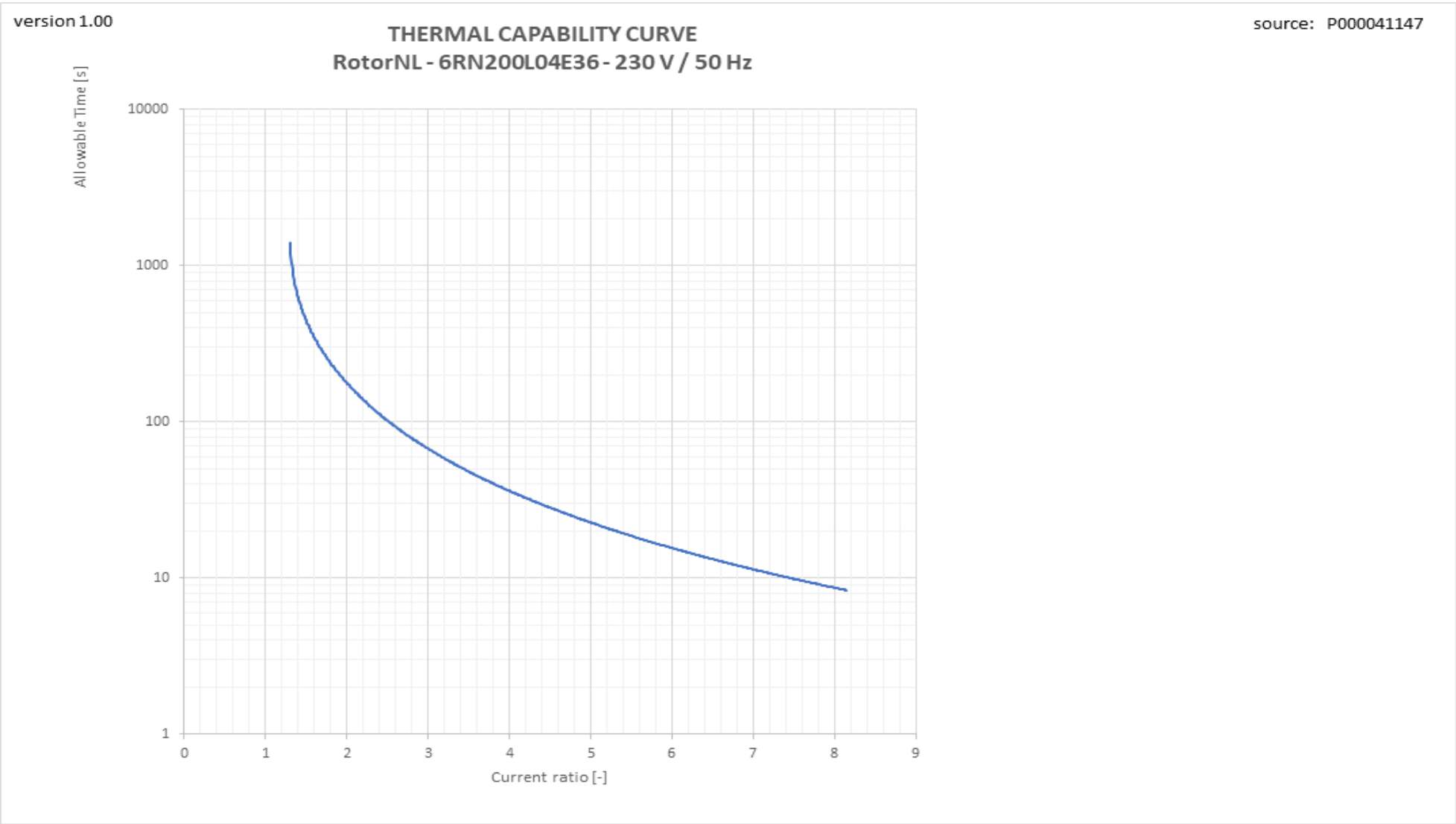


Torque versus Speed curve with variable frequency drive



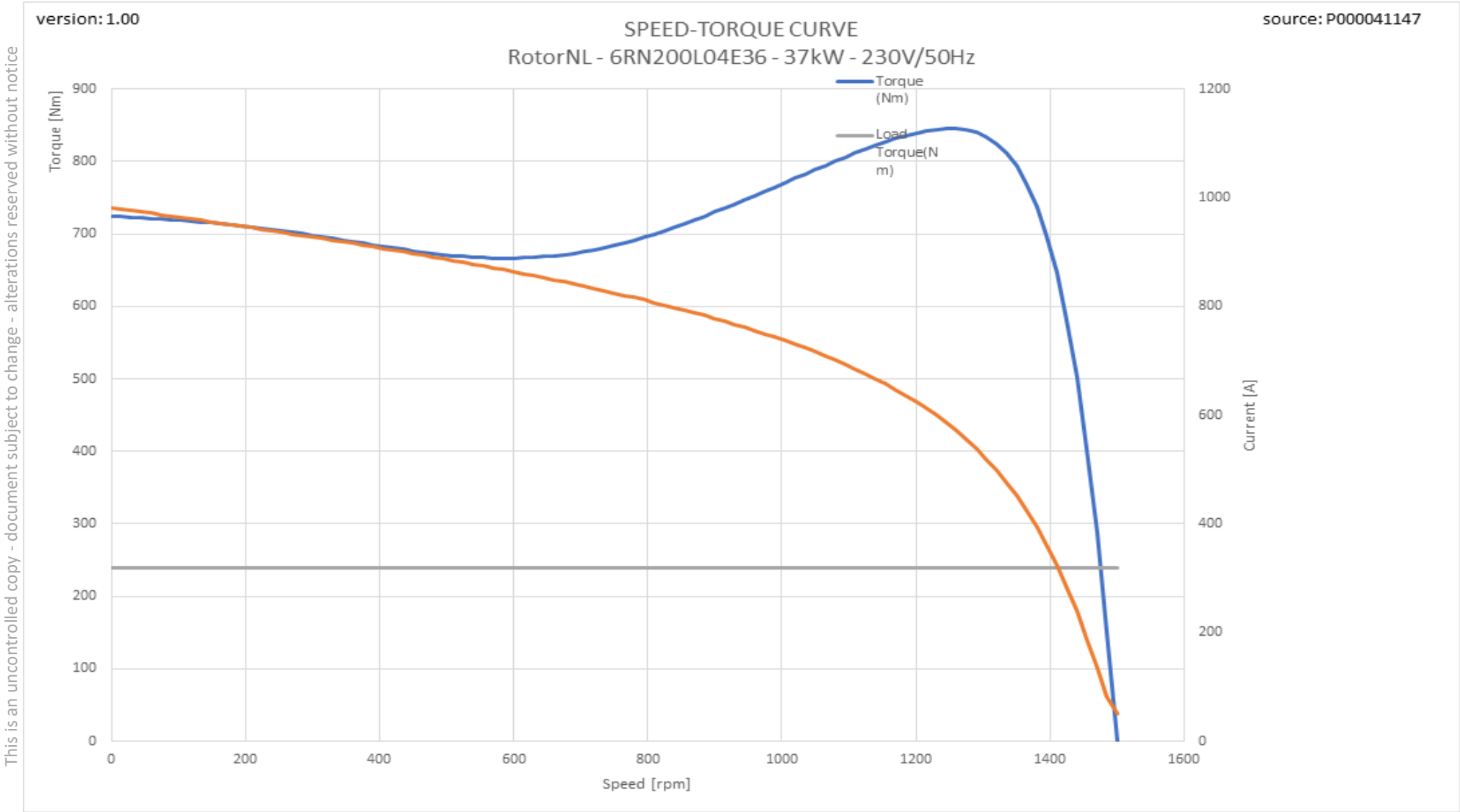
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Therm_VSD graph



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Tn graph



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