

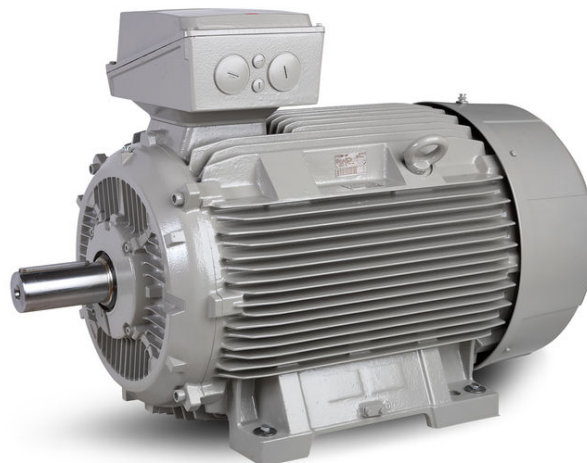
PRODUCT INFORMATION PACKET



Model No: 6RN200L02E34U461041

Catalog No: 6RN200L02E34U46@1041

30.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,
200L Frame B3, IC411



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Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	53.08 A	Speed	2955 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	0.87
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	2	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	55 mm	Shaft Extension	110 mm
Outline Drawing	6RN200L02E34U461041		

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Technical drawing of a motor, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 721
- Terminal box width: 197
- Terminal box mounting holes: M50x1.5
- Terminal box mounting holes: M50x1.5
- Terminal box mounting holes: M6
- Terminal box mounting holes: 100
- Terminal box mounting holes: 110
- Terminal box mounting holes: 5
- Terminal box mounting holes: 16 ^{h9}
- Terminal box mounting holes: 10
- Terminal box mounting holes: 59
- Terminal box mounting holes: DIN 332-DS M20
- Terminal box mounting holes: DIN 6885-1
- Terminal box mounting holes: Ø55 ^{m6}
- Terminal box mounting holes: 104
- Terminal box mounting holes: 31
- Terminal box mounting holes: 19
- Terminal box mounting holes: 90
- Terminal box mounting holes: 133
- Terminal box mounting holes: 305
- Terminal box mounting holes: 355
- Terminal box mounting holes: Ø407.5

Side View Dimensions:

- Overall height: 315
- Terminal box height: 266
- Terminal box width: 112
- Terminal box mounting holes: 258.5
- Terminal box mounting holes: 200 ^{-0.5}
- Terminal box mounting holes: 25
- Terminal box mounting holes: 318
- Terminal box mounting holes: 378
- Terminal box mounting holes: 70

Datasheet

rotor nl®

rotor B.V.

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Model No. 2-Pole cage motor 6RN 200L 30kW D400V 50Hz IM1041

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	30	40	53	2955	96,8	IE3	94,5	94,8	94,5	0,87	0,83	0,75	7,06	2,38	3,25
690	Y				30,6												
460	D	60	33,5	44,91	51,4	3555	89,9	IE3	94,5	94,6	94,1	0,87	0,84	0,77	7,30	2,55	3,28

Motor type	6RN200L02E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	200L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	30 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	57 K
Temperature rise surface	25 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	0,1803 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	238%	705%	210%	325%	17,3 A
@ D 460V 60Hz	255%	729%	210%	328%	16,2 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.

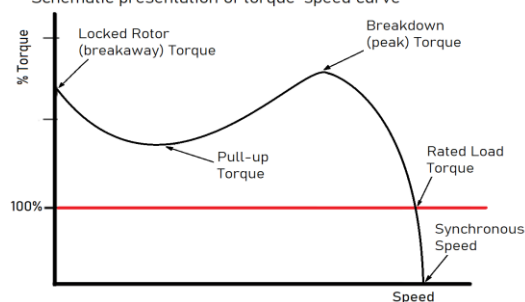
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	221 kg
Gross weight - approx.	228 kg
Motor inertia	0,1300 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	73,3 dB(A)

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



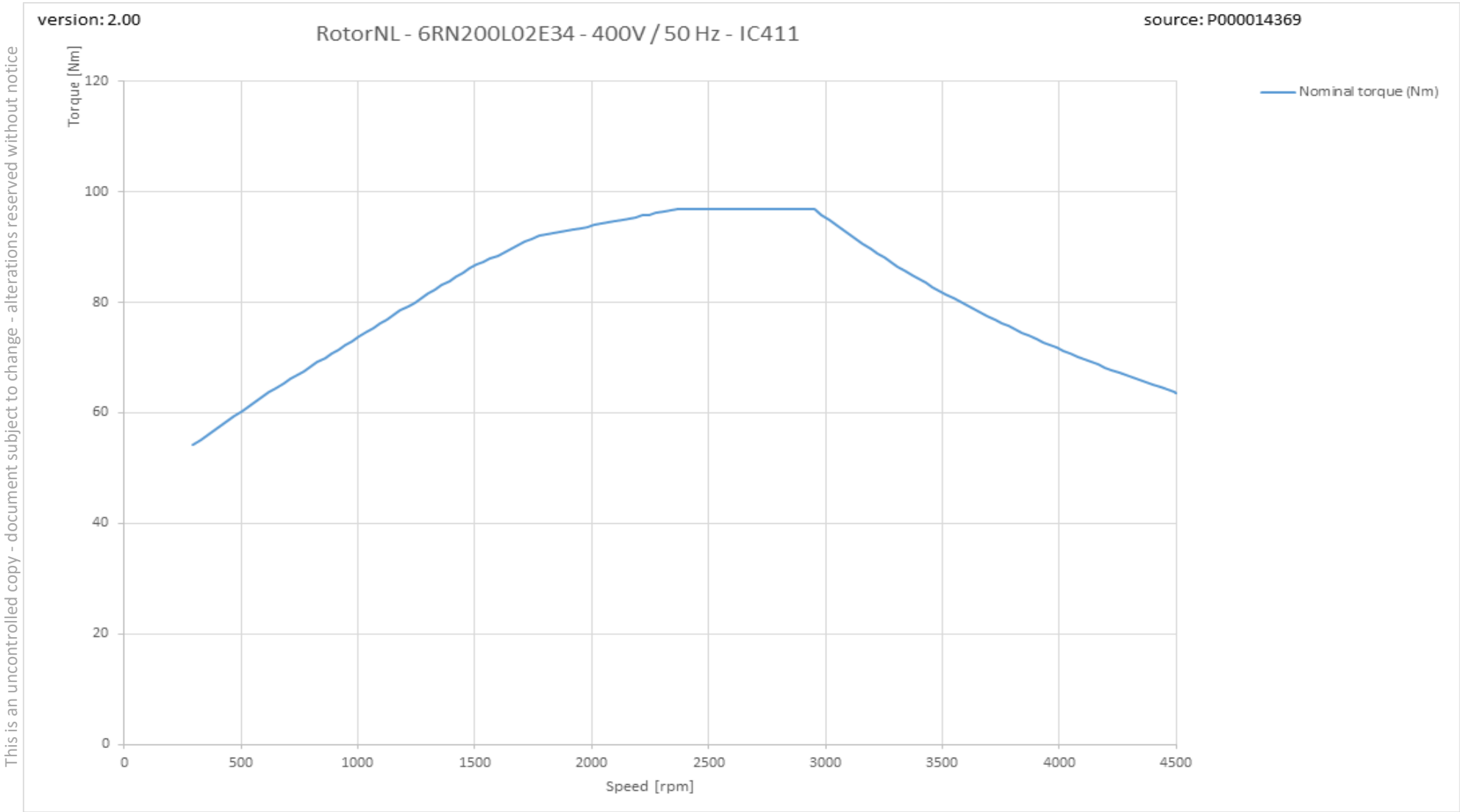
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6RN200L02E34 2-pole 30,00kW D/Y 400/690V 50Hz S1 IC411 IE3

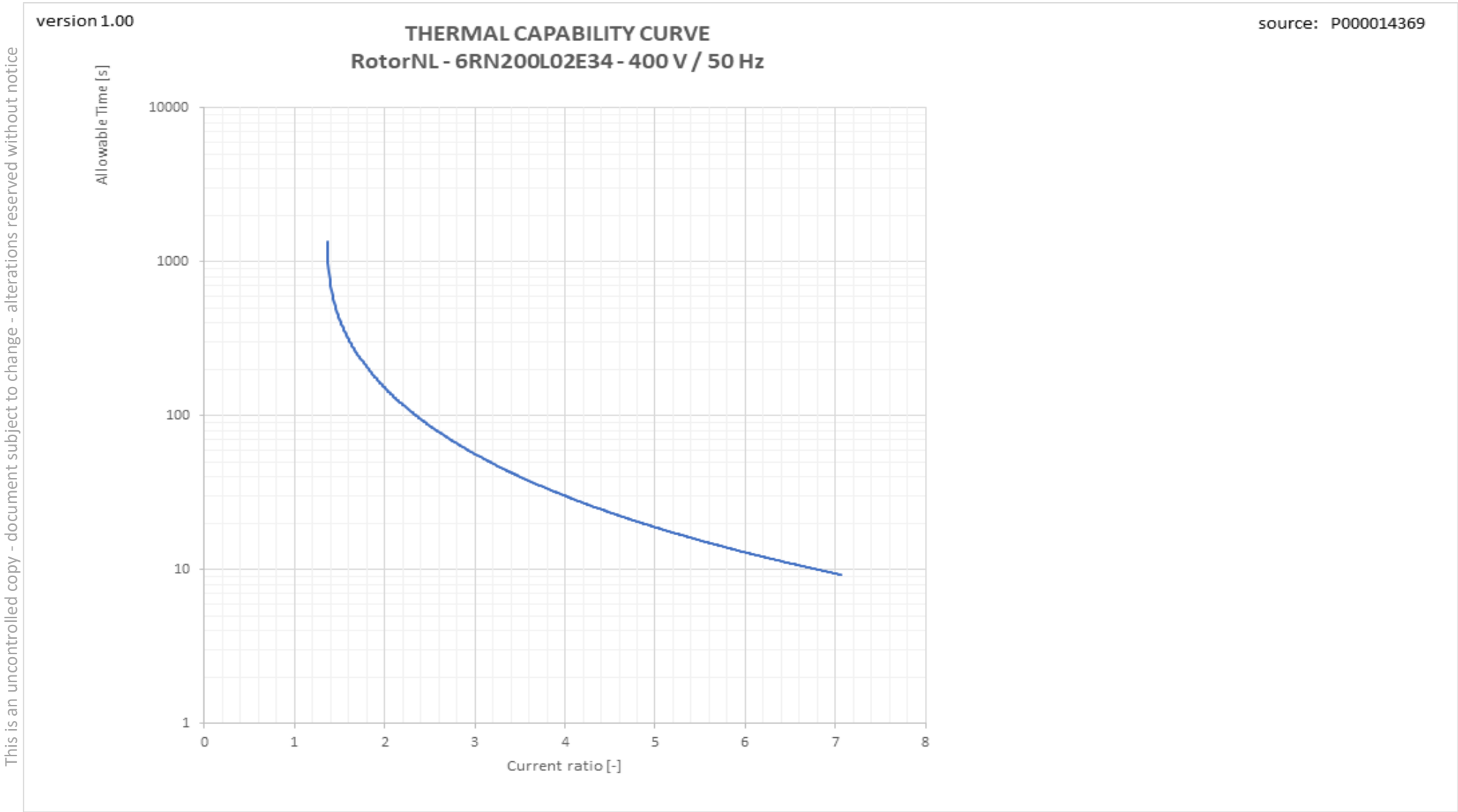


Torque versus Speed curve with variable frequency drive



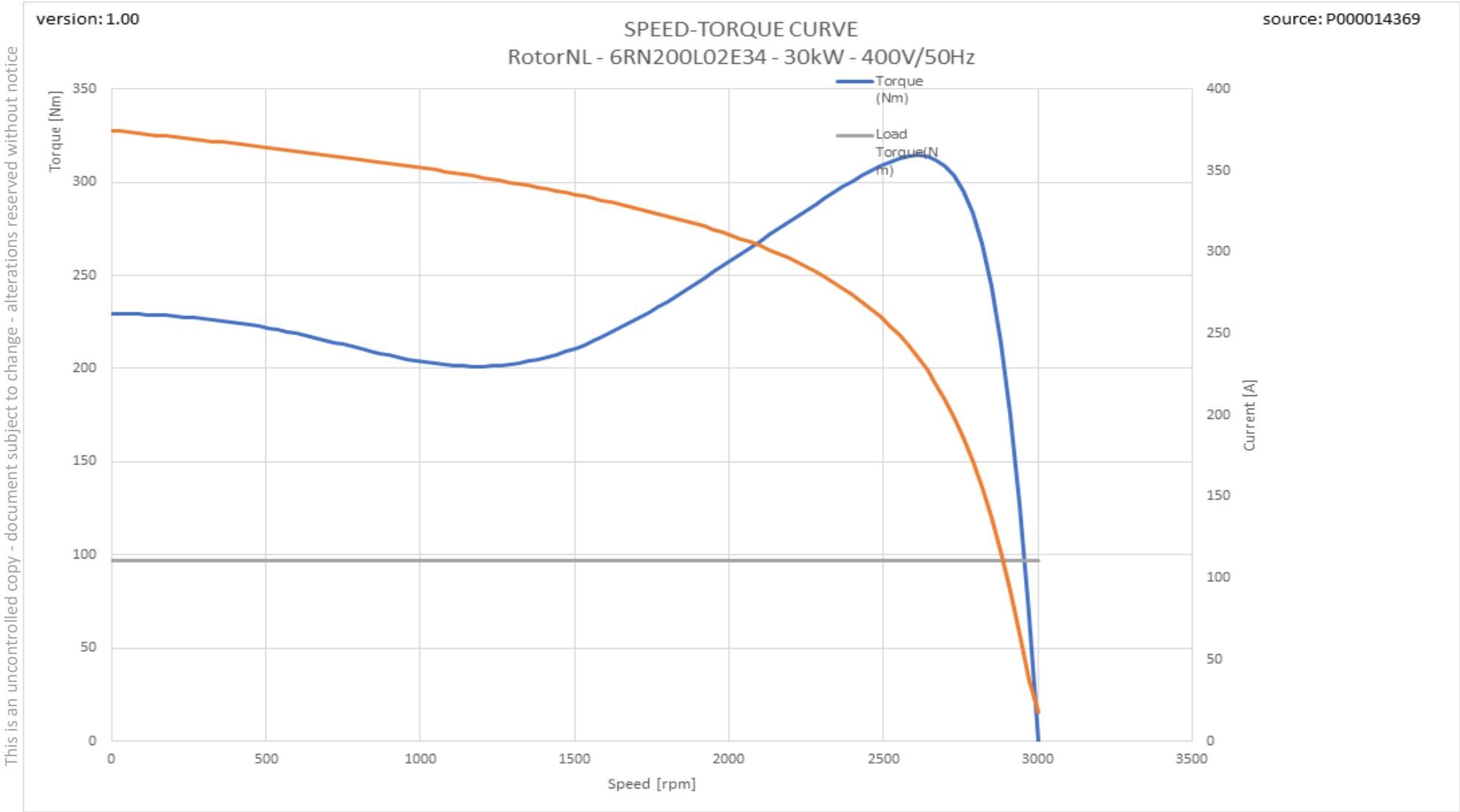
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Therm_VSD graph



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Tn graph



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