PRODUCT INFORMATION PACKET

Model No: 6RN100L04E35U24B3641-A
Catalog No: 6RN100L04E35U24B@3641-A
3.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,
100L Frame B14, IC411

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Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	10.40 A	Speed	1460 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6306-2Z/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	B14	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	28 mm	Shaft Extension	60 mm
Outline Drawing	6RN100L04E35U24B3641-A		

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Datasheet

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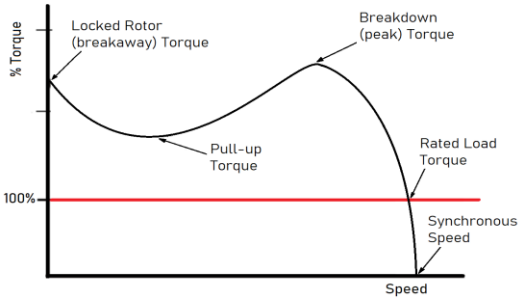
Model No. 4-Pole cage motor 6RN 100L 3kW D230V 50Hz IM3641-FT130

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]
230	D	50	3	4	10,4	1460	19,6	IE3	87,7			0,83			8,30	2,50	3,40
400	Y				5,9												
265	D	60	3	4	9,05	1775	16,1	IE3	89,8			0,80			9,00	2,95	4,84
460	Y				5,23												

Motor type	**6RN100L04E35**	Degree of protection	**IP55**
Enclosure	**Totally Enclosed Fan Cooling**	Mounting type	**IM3641-FT130**
Frame Material	**Cast iron**	Cooling method	**IC411**
Frame size	**100L**	Motor weight - approx.	**41** kg
Duty	**S1**	Gross weight - approx.	**42** kg
Voltage	**230** V	Motor inertia	**0,0140** kgm²
Frequency	**50** Hz		
Power output	**3** kW	Vibration level	**according IEC60034-14**
		Noise level (pressure) acc 60034-9	**60** dB(A)
Insulation class	**F**		
Ambient temperature	**-20 till 40** °C		
Temperature rise	**temp.rise acc. B (80K)**		
Temperature rise winding	**42** K		
Temperature rise surface	**28** K	Direction of rotation	**cw /ccw**
Altitude above sea level	**1000** mtr		
Hazardous area classification	**Safe area**		
Rotor type	**Cage motor**		
Bearing type	**6306-2Z/C3WT**		
Type of grease	**Unirex N3**		
Phase resistance at 20°C	**4,7600** Ohm		
Country of origin	**CZ**		

Schematic presentation of torque-speed curve



Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	250%	471%		340%	4,49 A
@ D 265V 60Hz	295%	899%	165%	484%	4,61 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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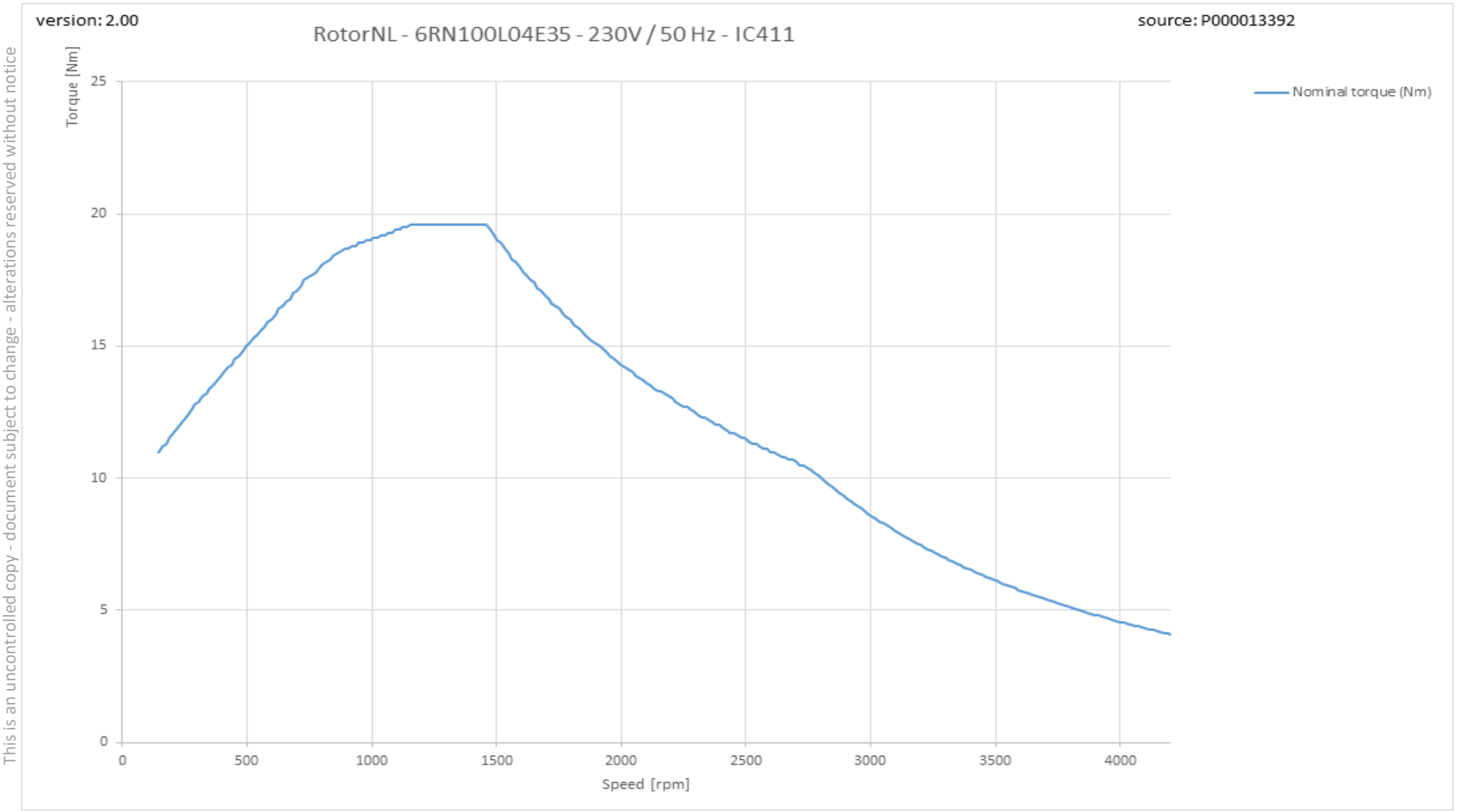
6RN100L04E35 4-pole 3,00kW D/Y 230/400V 50Hz S1 IC411 IE3

Torque versus Speed curve with variable frequency drive



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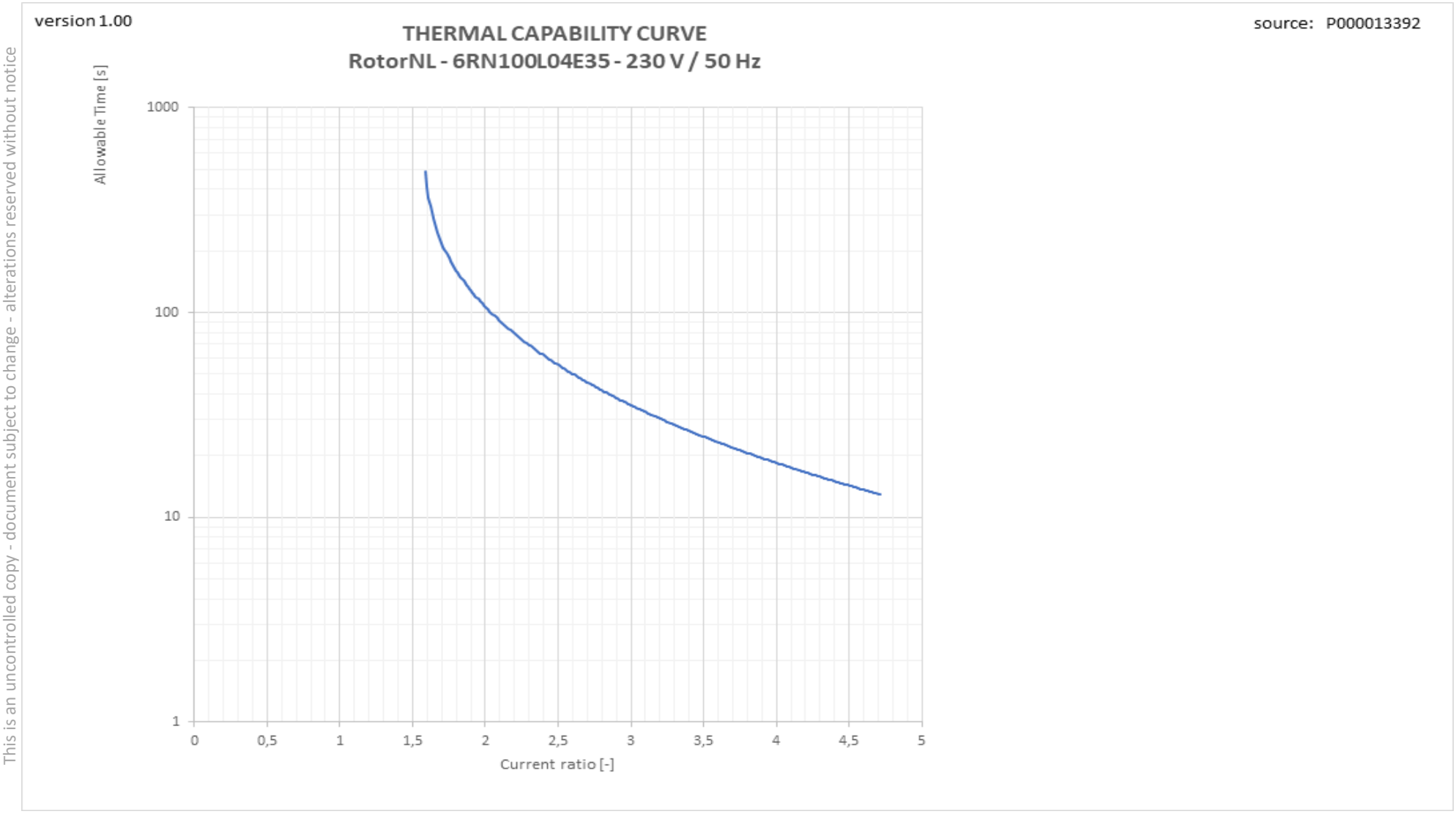
Therm_VSD graph



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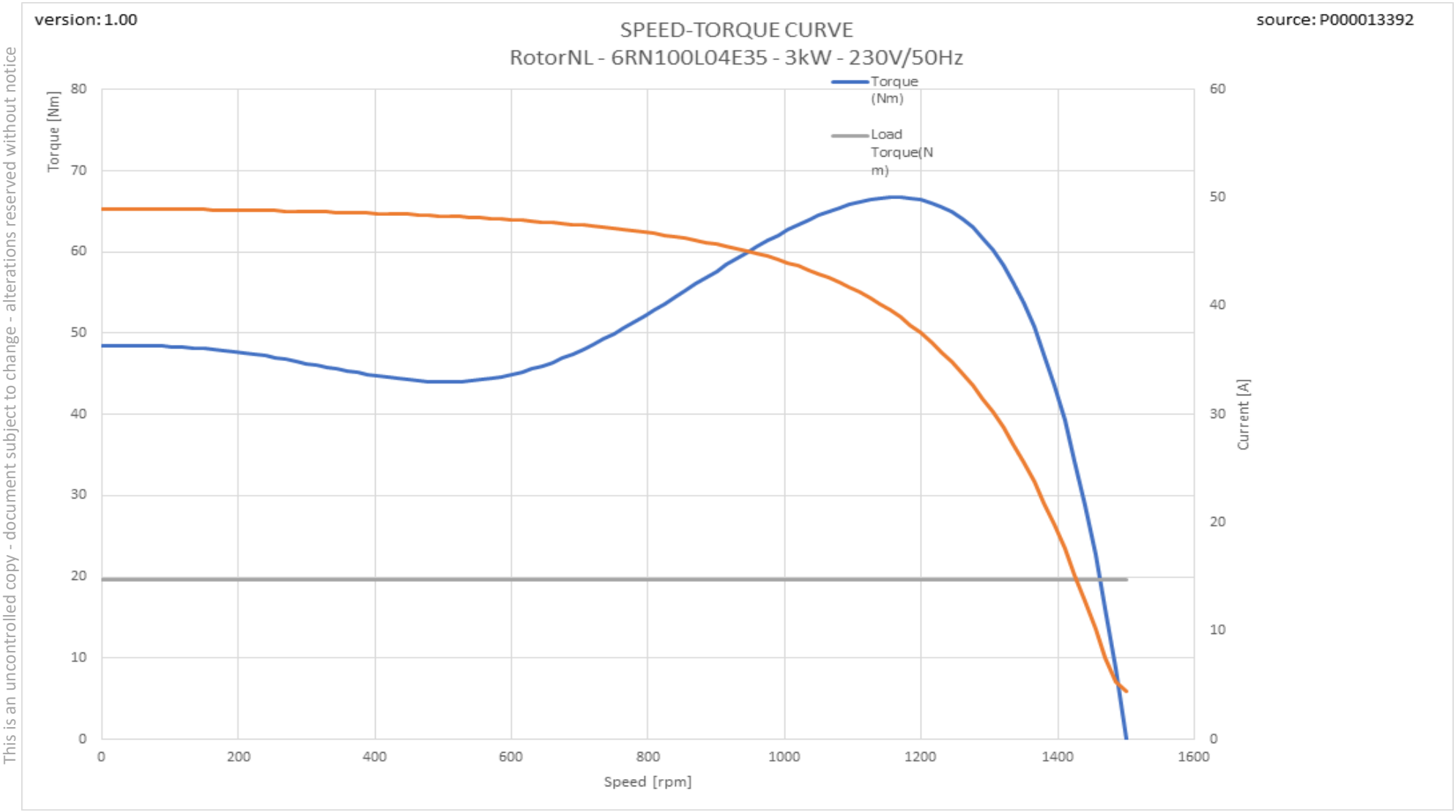
Tn graph



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