

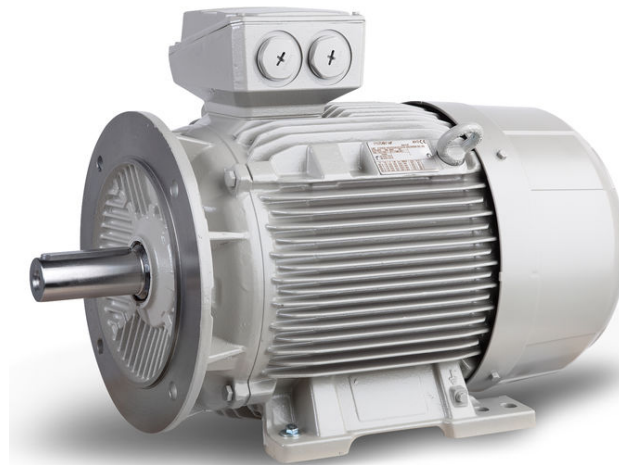
PRODUCT INFORMATION PACKET



Model No: 6RN180L04E36U46B2021-Uni

Catalog No: 6RN180L04E36U46B@2021-Uni

30.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,
180L Frame B35, IC411



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Nameplate Specifications

Output HP	40.00 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	58.41 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6310-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6310-2Z/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	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	48 mm	Shaft Extension	110 mm
Outline Drawing	6RN180L04E36_1041		

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Datasheet

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Model No. 4-Pole cage motor 6RN 180L 30kW D400V 50Hz IM2021-FF300

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]
400	D	50	30	40	58,5	1470	195	IE3	93,3	0,79	8,03	2,83	3,64
690	Y				33,8								
460	D	60	34,5	46,25	57,2	1770	186	IE3	94,1 94,2 94,1	0,81 0,76 0,66	8,34	2,72	3,58

Motor type	6RN180L04E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	180L
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	73 K
Temperature rise surface	41 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6310-2Z/C3WT - 6310-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	0,1842 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	283%	801%	251%	364%	26,6 A
@ D 460V 60Hz	272%	832%	246%	358%	24 A

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

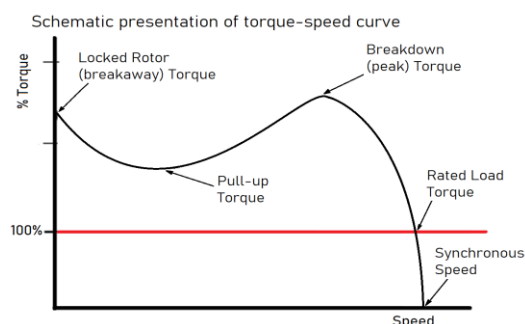
Voltage, Frequency are as per IEC60034-1

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

Degree of protection	IP55
Mounting type	IM2021-FF300
Cooling method	IC411
Motor weight - approx.	196 kg
Gross weight - approx.	202 kg
Motor inertia	0,1730 kgm ²
Vibration level	according IEC60034-14

Direction of rotation	cw / ccw
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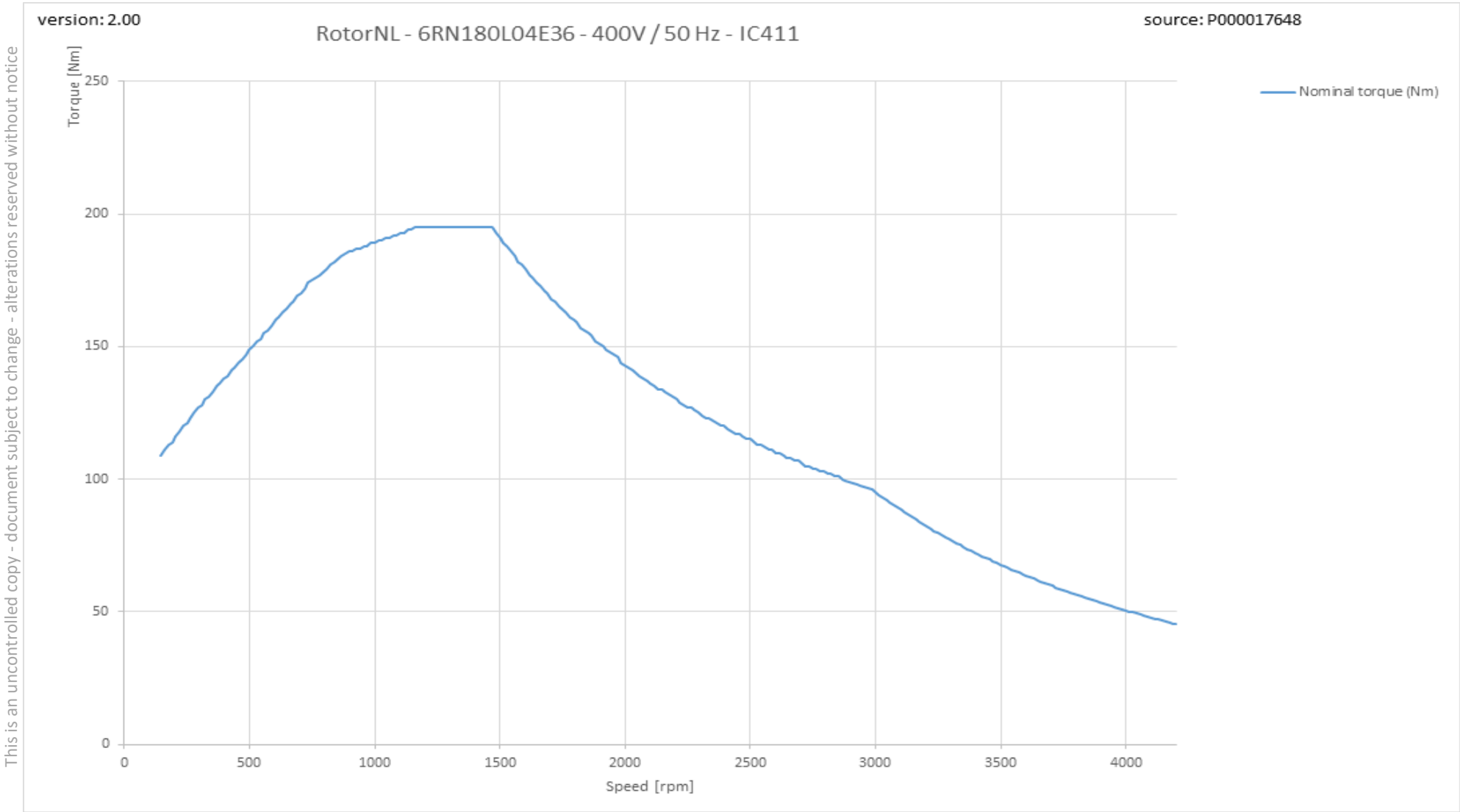
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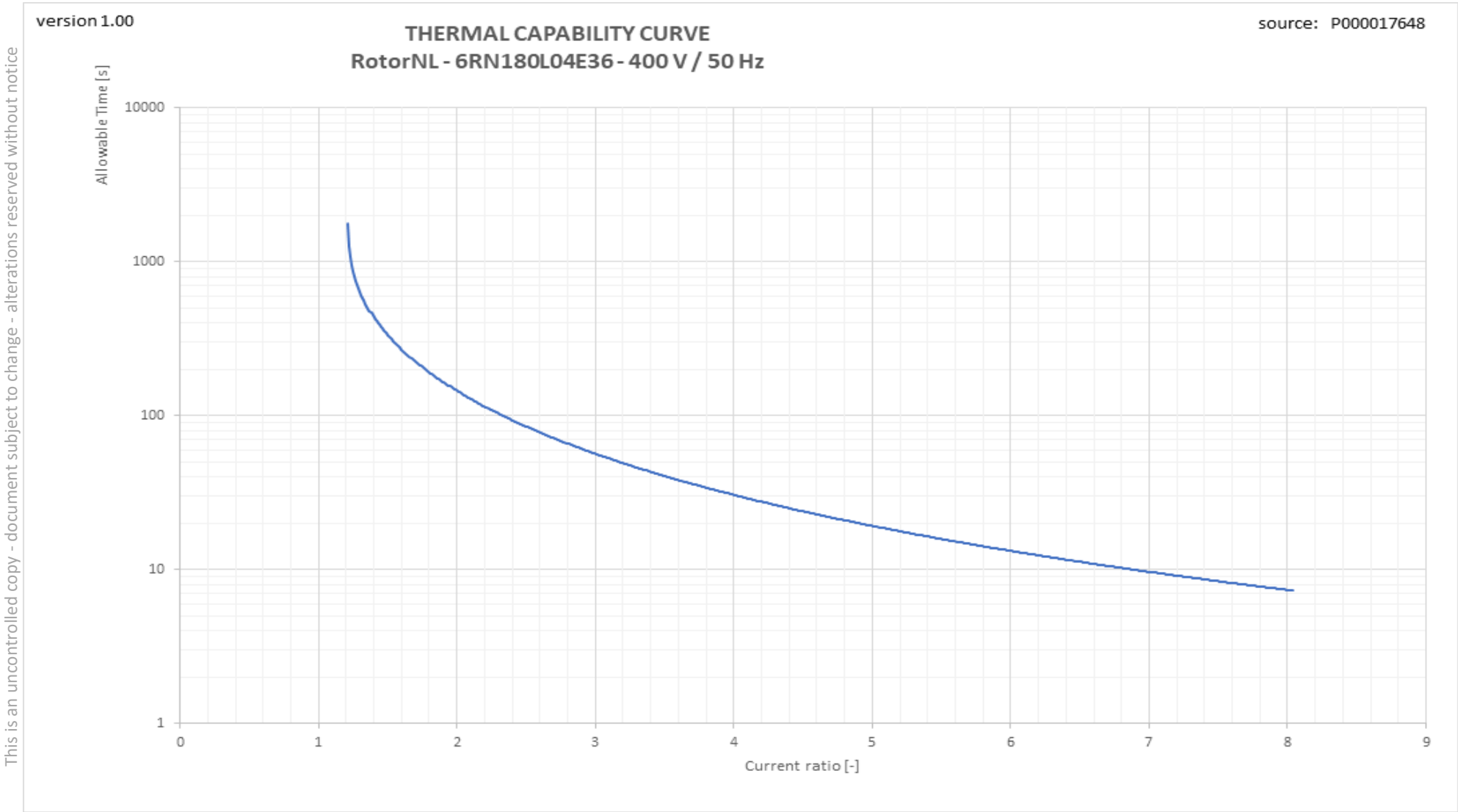
6RN180L04E36 4-pole 30,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive

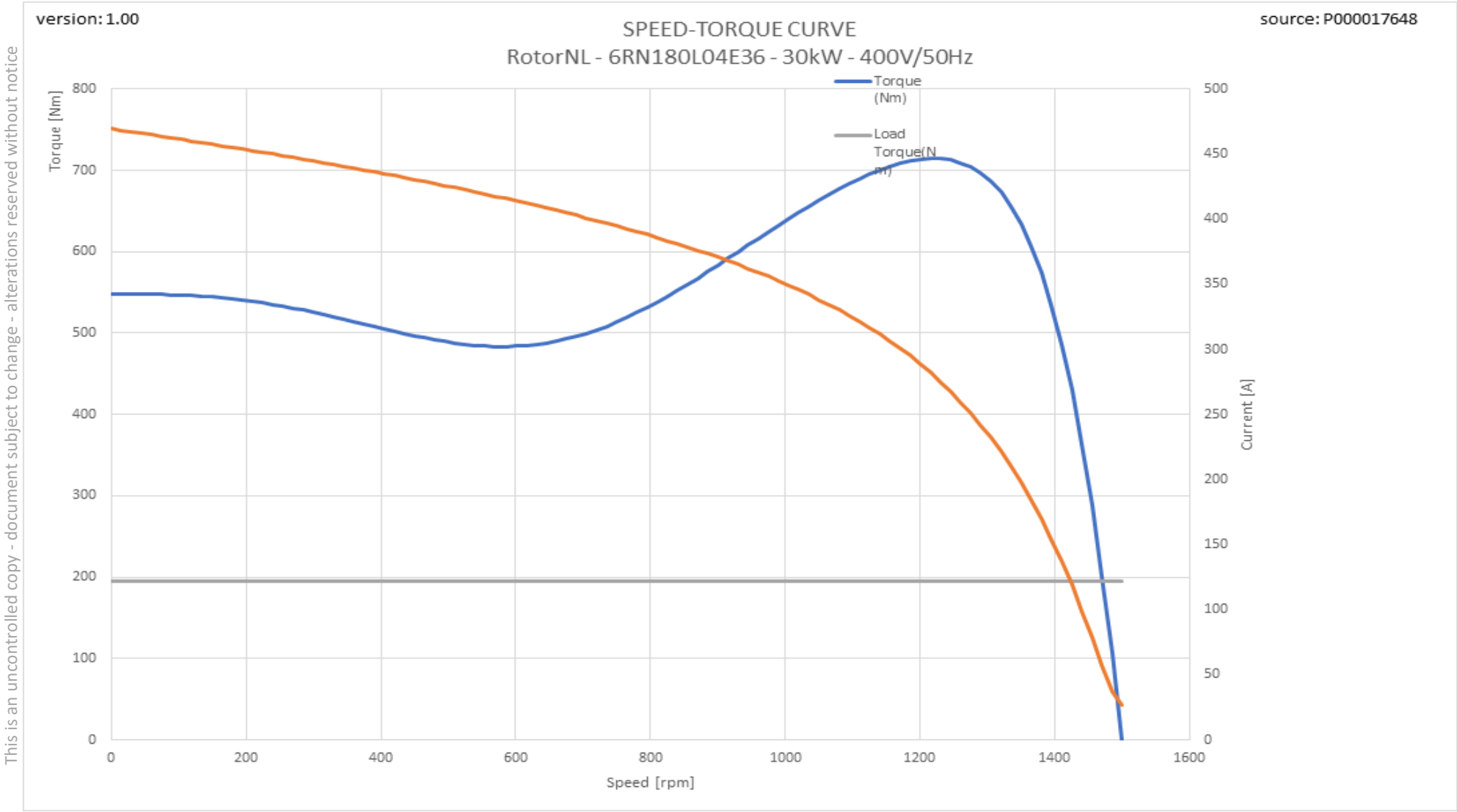


Therm_VSD graph



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Tn graph



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