

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN180L06E34U463021

Catalog No: 6RN180L06E34U46@3021

15.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
180L Frame B5, IC411



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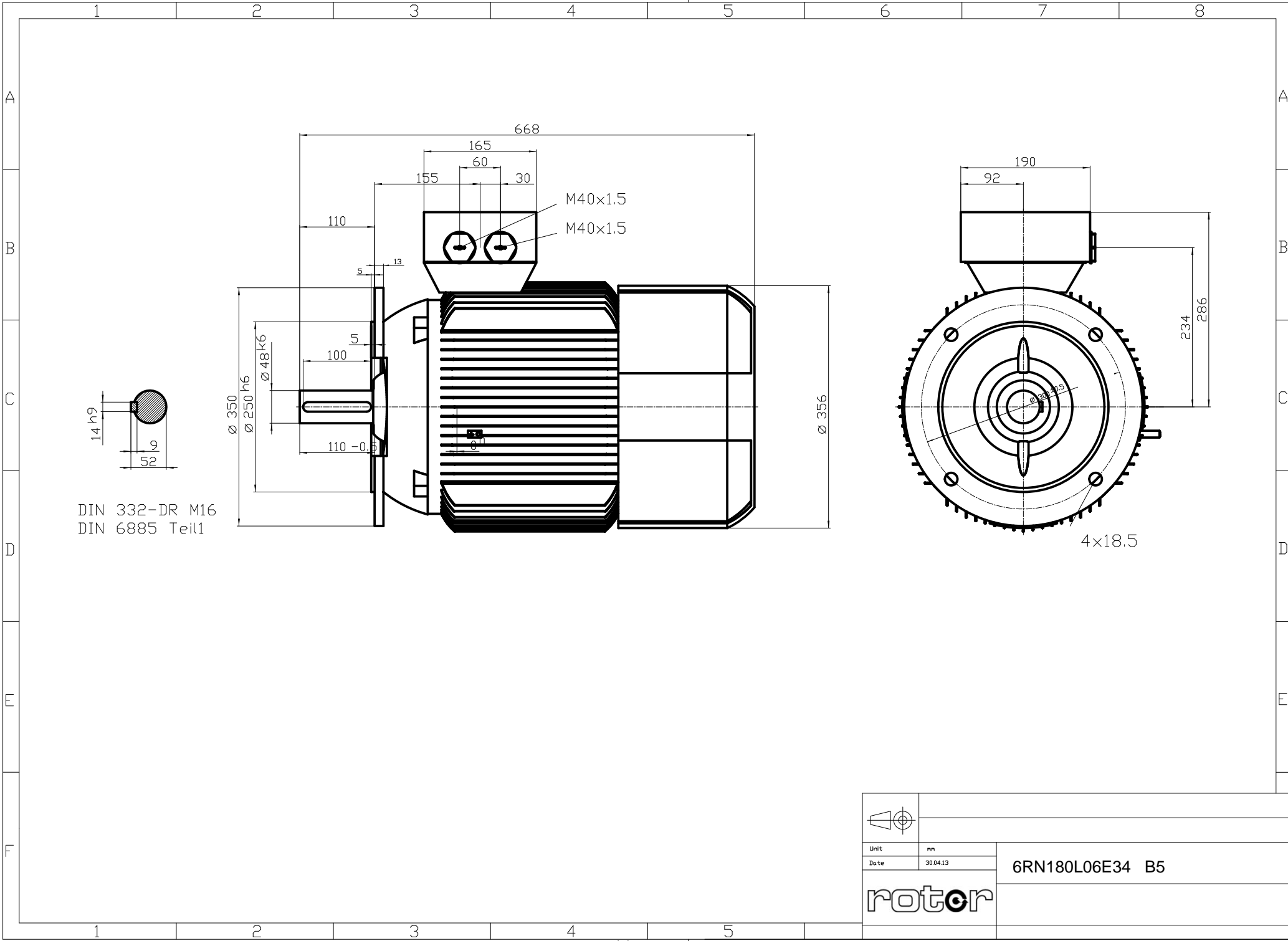
Nameplate Specifications

Output HP	20 Hp	Output KW	15.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	29.76 A	Speed	970 rpm
Service Factor	1	Phase	3
Efficiency	91.2 %	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	6	Rotation	Clockwise Shaft End
Mounting	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN180L06E34U463021		

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DIN 332-DR M16
 DIN 6885 Teil1

M40x1.5
 M40x1.5

4x18.5

Unit	mm	6RN180L06E34 B5	
Date	30.04.13		

Datasheet



Mors 1-5, 7151 MX Eibergen NL
 www.rotor.nl tel.: +31 545 464640
 sales@rotor.nl tel.: +31 545 464646

Model No. 6-Pole cage motor 6RN 180L 15kW D400V 50Hz IM3021-FF300

U (V)	Δ / Y Conn	f [Hz]	P		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 _R /T _N [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	15	20	29,7	970	147	IE3	91,9	92,7	92,6	0,79	0,74	0,63	6,13	2,17	2,80
690	Y				17,1												
460	D	60	18	24,13	30,4	1170	146	IE2	92,2	93,0	93,1	0,81	0,76	0,67	6,04	1,99	2,50

Motor type	6RN180L06E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	180L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	15 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	55 K
Temperature rise surface	32 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6310-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	0,5440 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	217%	612%	175%	280%	12,8 A
@ D 460V 60Hz	199%	601%	175%	250%	11,8 A

NOTE

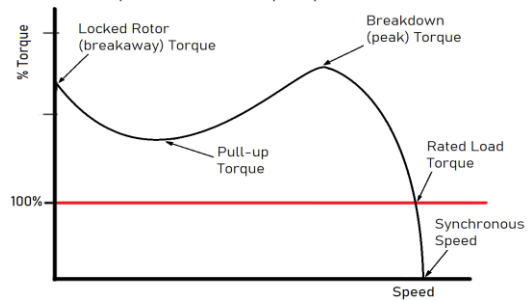
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM3021-FF300
Cooling method	IC411
Motor weight - approx.	167 kg
Gross weight - approx.	172 kg
Motor inertia	0,1900 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	56 dB(A)
Direction of rotation	cw / ccw

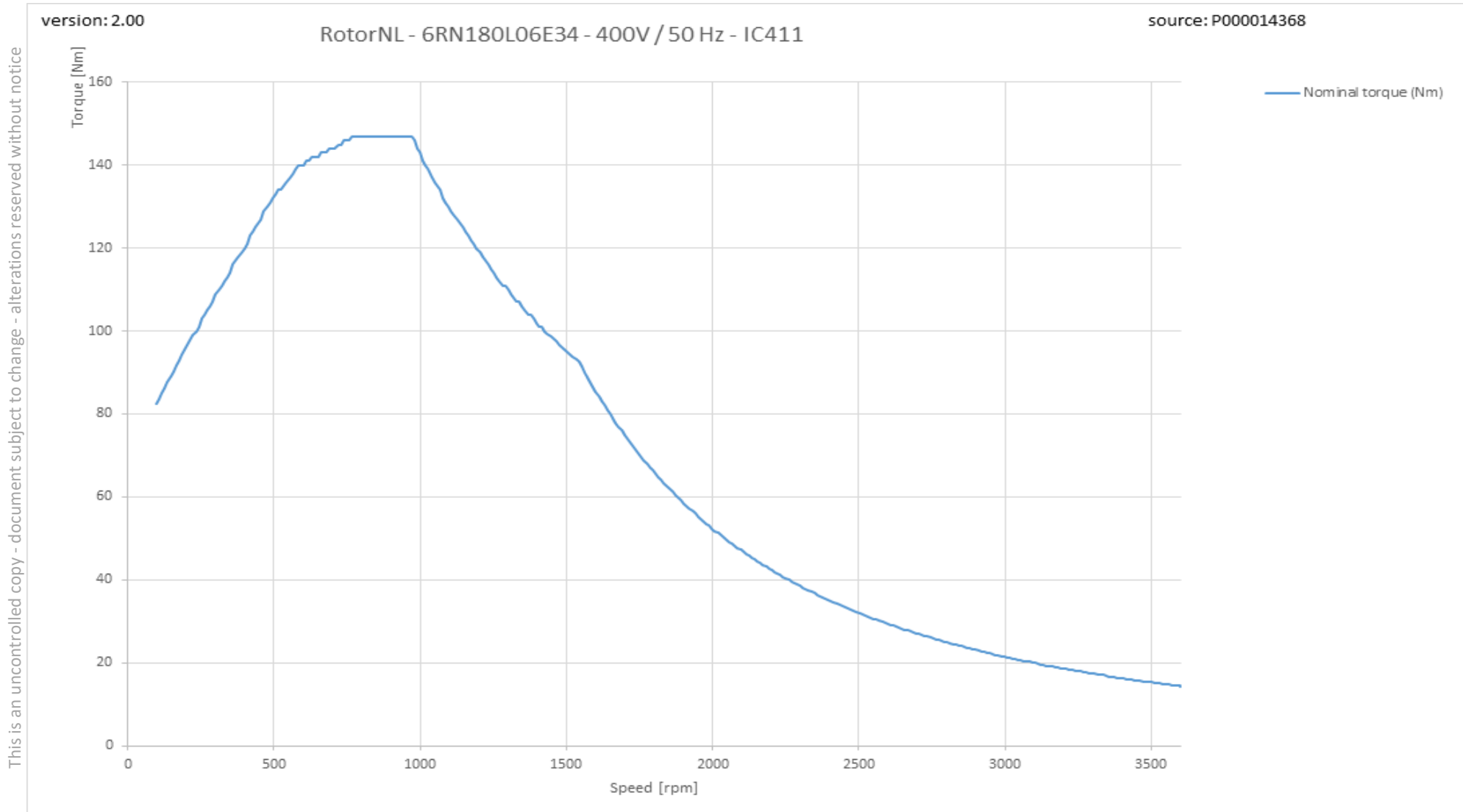
Schematic presentation of torque-speed curve



6RN180L06E34 6-pole 15,00kW D/Y 400/690V 50Hz S1 IC411 IE3

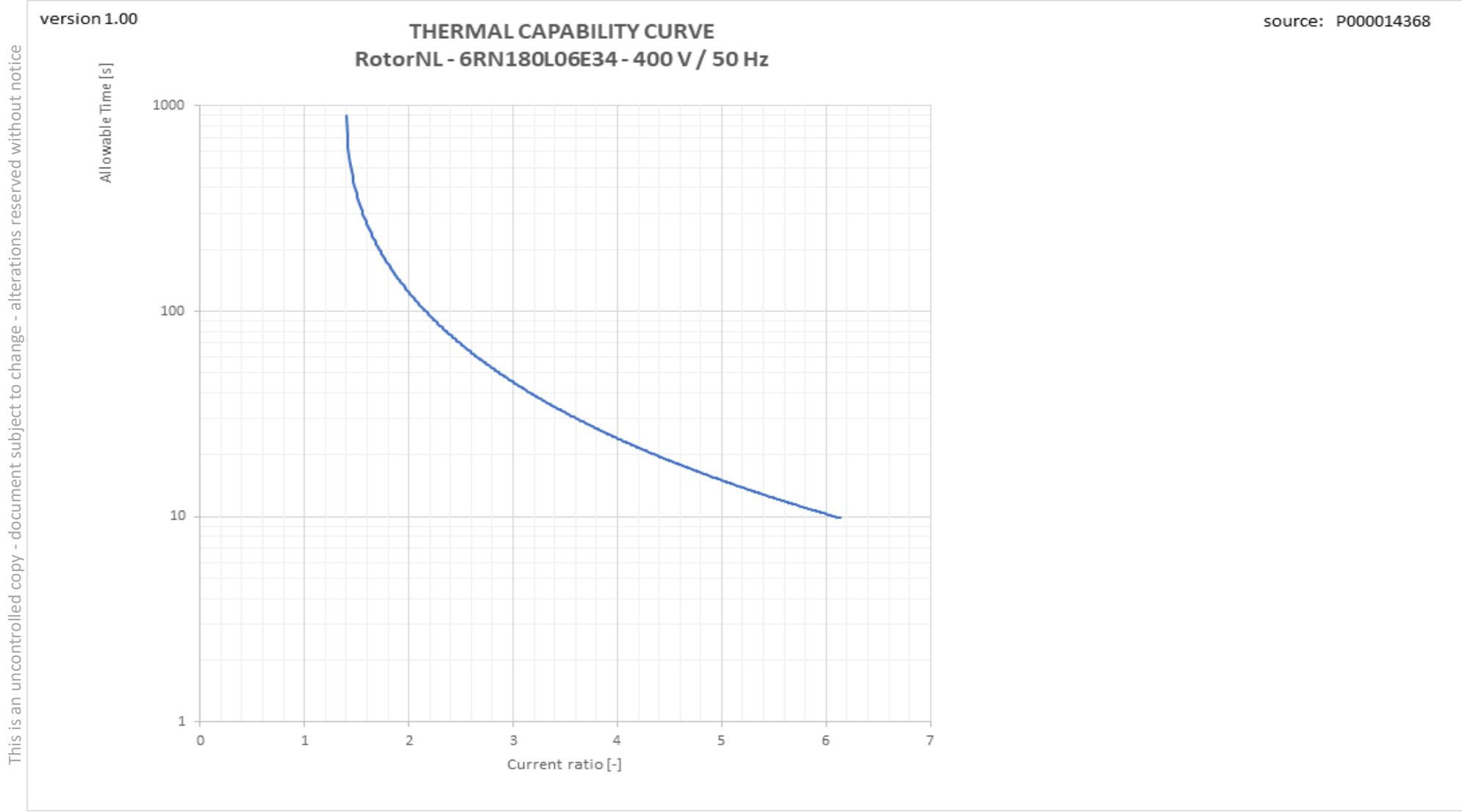


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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Tn graph

