

# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN180L06E36U241041

Catalog No: 6RN180L06E36U24@1041

18.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,  
180L Frame B3, IC411



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## Nameplate Specifications

Efficiency Class

IE3

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## Technical Specifications

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Datasheet



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**Model No.** 6-Pole cage motor 6RN 180L 18,5kW D230V 50Hz IM1041

U (V)	Δ / Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>R</sub> /T <sub>N</sub> [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	18,5	24,8	65,8	975	180	IE3	91,7			0,77			6,90	2,58	3,30
400	Y				38												
265	D	60	22	30	65	1175	178	IE3	93,0	93,5	93,4	0,79	0,73	0,62	6,90	2,40	3,10

Motor type	<b>6RN180L06E36</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>180L</b>
Duty	<b>S1</b>
Voltage	<b>230 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>18,5 kW</b>
Insulation class	<b>F</b>
Ambient temperature	<b>-20 till 40 °C</b>
Temperature rise	<b>temp.rise acc. B (80K)</b>
Temperature rise winding	<b>67 K</b>
Temperature rise surface	<b>35 K</b>
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Degree of protection	<b>IP55</b>
Mounting type	<b>IM1041</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>185 kg</b>
Gross weight - approx.	<b>191 kg</b>
Motor inertia	<b>0,2470 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>

Rotor type	<b>Cage motor</b>
Bearing type	<b>6310-2Z/C3WT</b>
Type of grease	<b>Unirex N3</b>
Country of origin	<b>CZ</b>

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	258%	689%	230%	330%	33,4 A
@ D 265V 60Hz	240%	689%	220%	310%	30,4 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



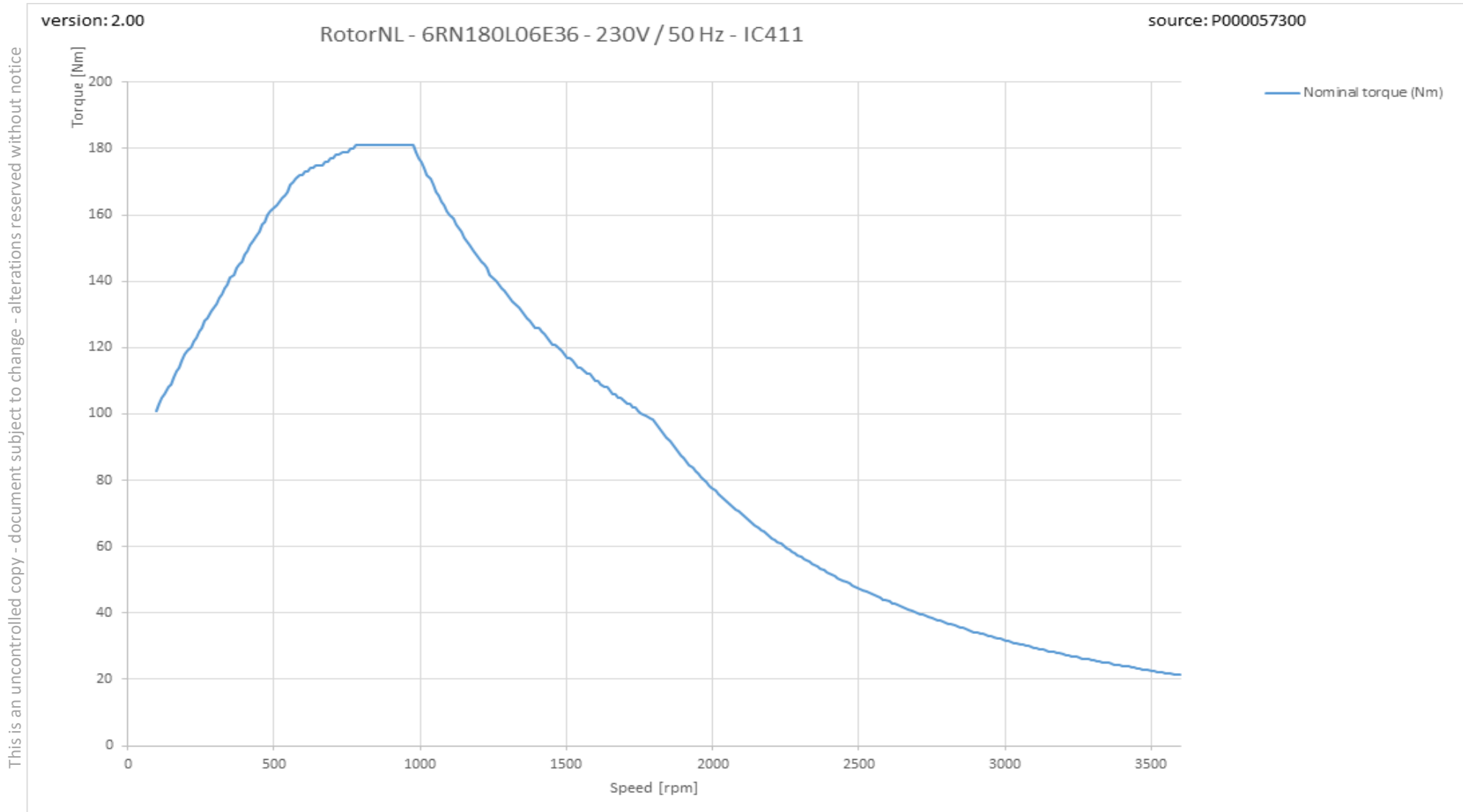
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6RN180L06E36 6-pole 18,50kW D/Y 230/400V 50Hz S1 IC411 IE3

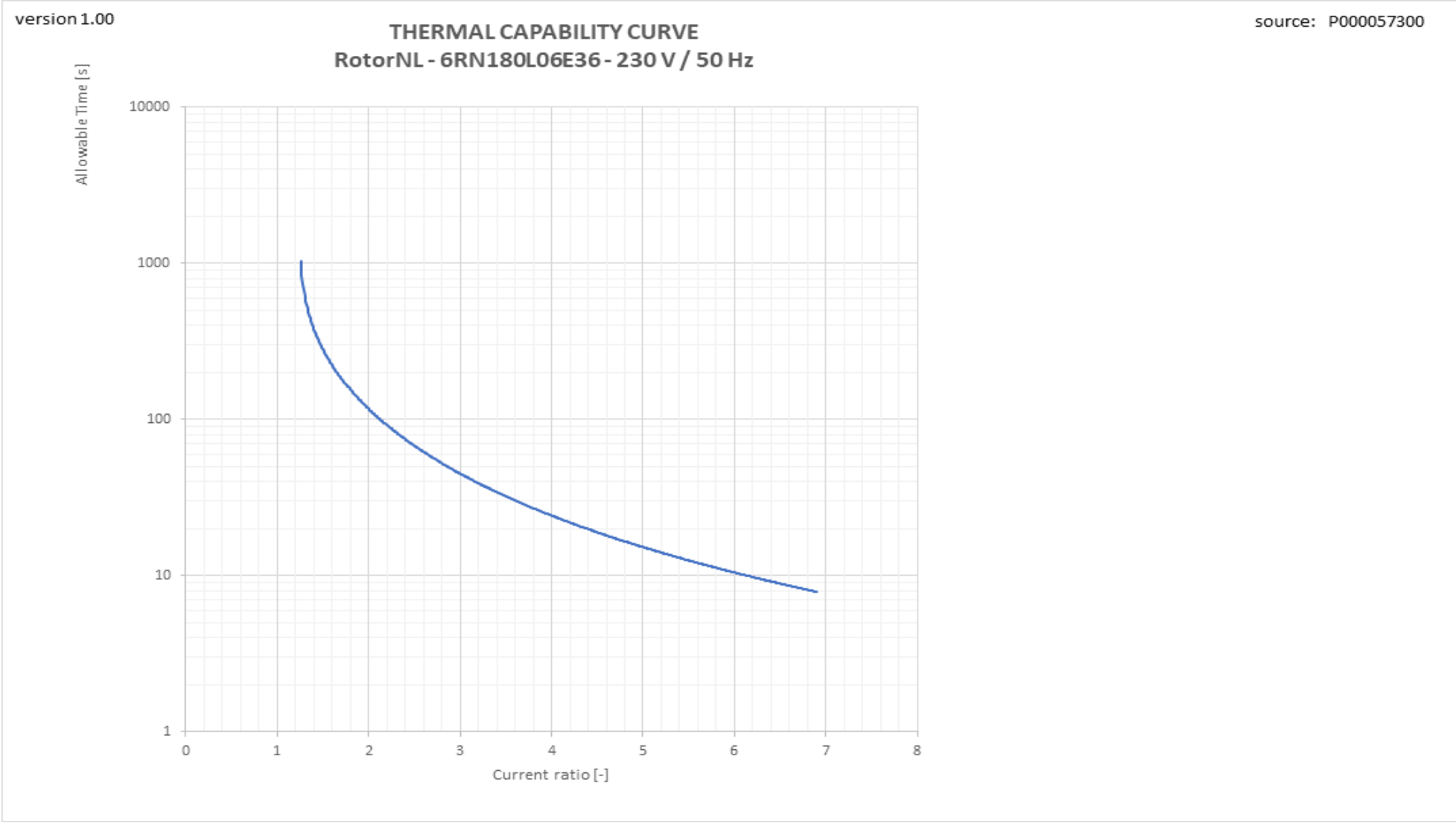


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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