

# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN80M06E33U241081

Catalog No: 6RN80M06E33U24@1081

0.55 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,  
80M Frame B3, IC411



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## Nameplate Specifications

Efficiency Class

IE3

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## Technical Specifications

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## Datasheet

rotor ni®

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**Model No.** 6-Pole cage motor 6RN 80M 0,55kW D230V 50Hz IM1081

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	0,55	0,737	2,66	935	5,62	IE3	76,4	76,9	74,4	0,68	0,59	0,46	4,49	2,56	2,84
400	Y				1,53												
265	D	60	0,63	0,845	2,49	1135	5,3	IE3	79,2	79,5	77,2	0,67	0,59	0,46	5,02	2,47	2,96
460	Y				1,44												

Motor type	<b>6RN80M06E33</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Aluminum</b>
Frame size	<b>80M</b>
Duty	<b>S1</b>
Voltage	<b>230 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>0,55 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>43 K</b>
Temperature rise surface	
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Degree of protection	<b>IP55</b>
Mounting type	<b>IM1081</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>12 kg</b>
Gross weight - approx.	<b>12 kg</b>
Motor inertia	<b>0,0031 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>

Rotor type	<b>Cage motor</b>
Bearing type	<b>6004-2Z/C3WT</b>
Type of grease	<b>Unirex N3</b>
Phase resistance at 20°C	<b>24,7210 Ohm</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	256%	522%	251%	284%	1,84 A
@ D 265V 60Hz	247%	502%	251%	296%	1,71 A

**NOTE**

All performance values at rated voltage and frequency.

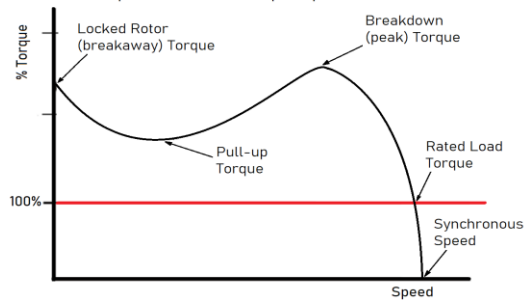
All performance parameters are subjected to standard tolerance as per IEC 60034-1

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

Schematic presentation of torque-speed curve



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is a  
**ISO 9001**  
certified  
company

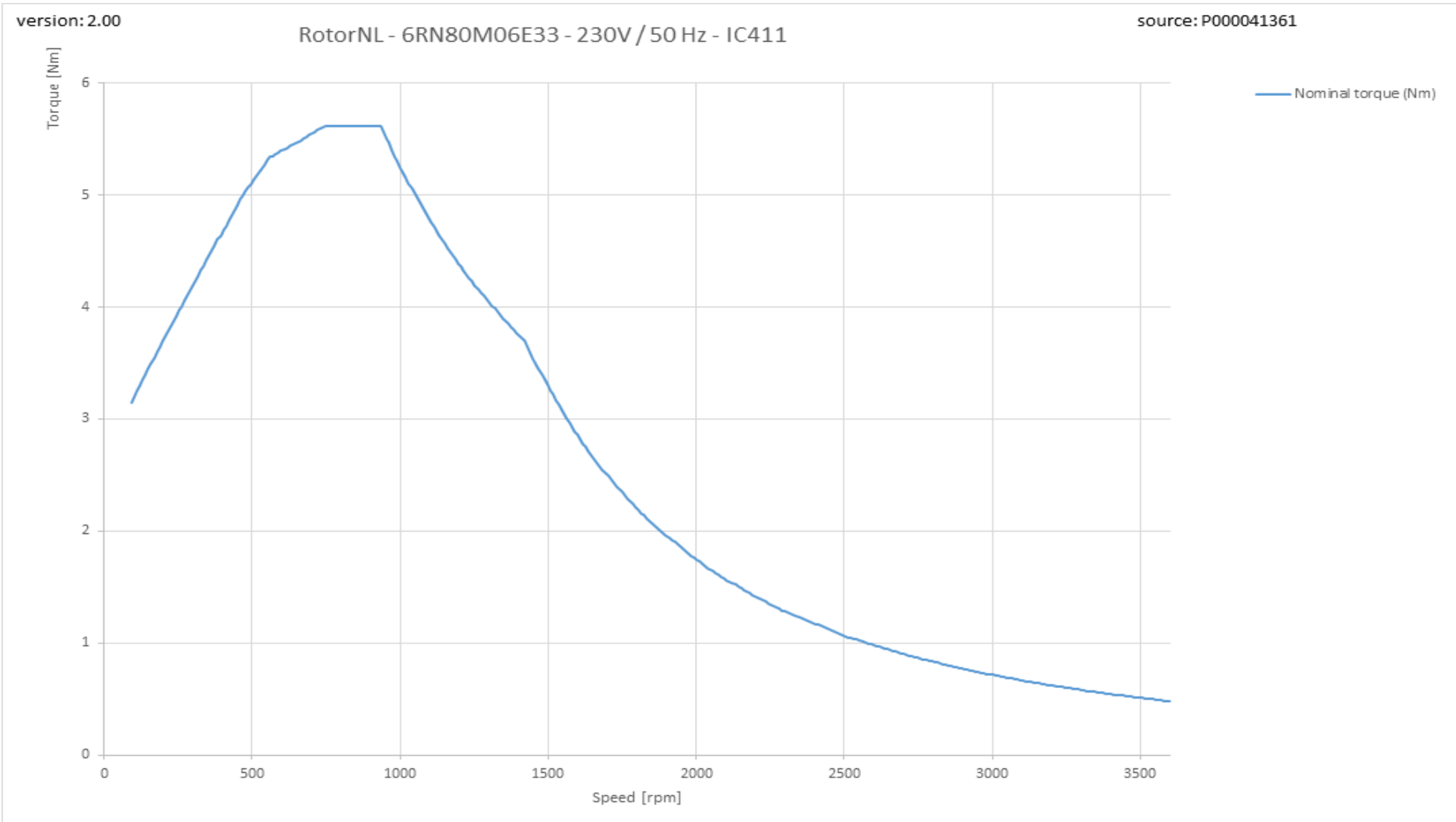
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6RN80M06E33 6-pole 0,55kW D/Y 230/400V 50Hz S1 IC411 IE3



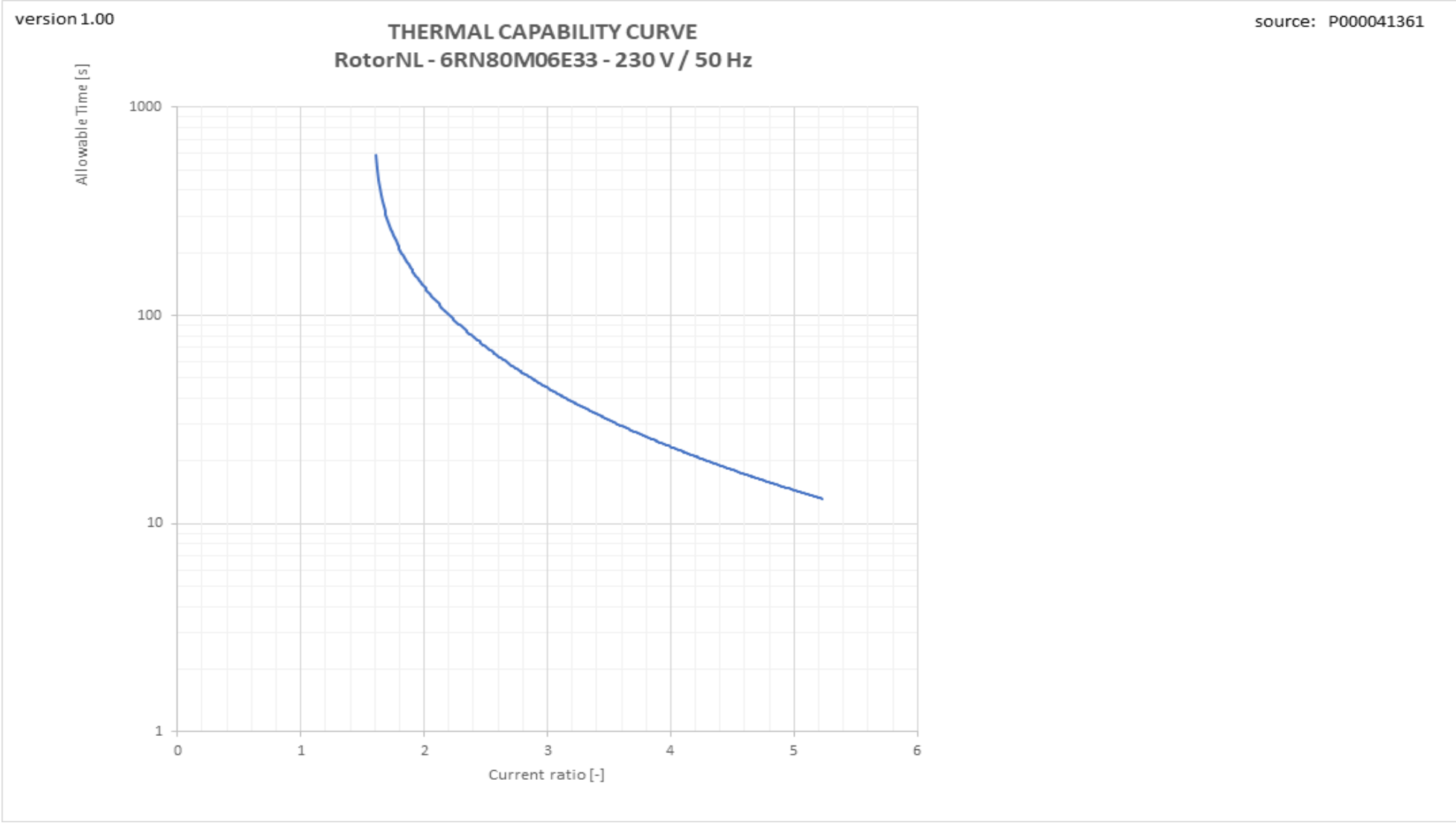
Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph

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Tn graph

