

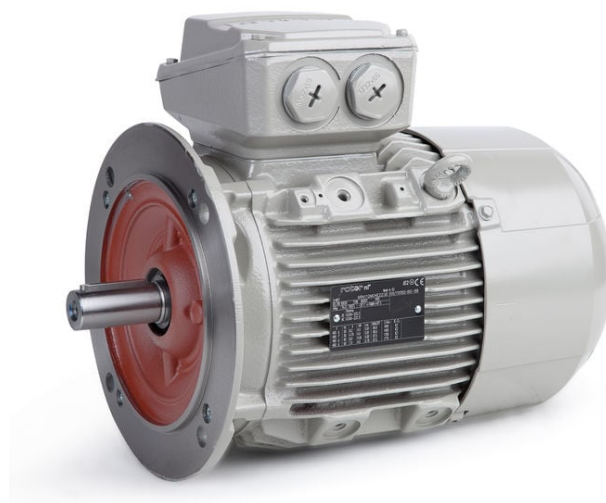
# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN112M04E32U243041

Catalog No: 6RN112M04E32U24@3041

4.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,  
112M Frame B5, IC411



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**Nameplate Specifications**

Output HP	<b>5.50 Hp</b>	Output KW	<b>4.0 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>D230/Y400 V</b>
Current	<b>13.75 A</b>	Speed	<b>1460 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>88.6 %</b>	Power Factor	<b>0.83</b>
Duty	<b>S1</b>	Insulation Class	<b>F</b>
Frame	<b>112M</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6306-2Z/C3WT (-40°C/+160°C)</b>	Opp Drive End Bearing Size	<b>6306-2Z/C3WT (-40°C/+160°C)</b>
UL	<b>No</b>	CSA	<b>Optional</b>
CE	<b>Yes</b>	IP Code	<b>IP55</b>
Number of Speeds	<b>1</b>	Efficiency Class	<b>IE3</b>

**Technical Specifications**

Electrical Type	<b>Squirrel Cage</b>	Starting Method	<b>Direct On Line</b>
Poles	<b>4</b>	Rotation	<b>Clockwise Shaft End</b>
Mounting	<b>B5</b>	Motor Orientation	<b>Any</b>
Frame Material	<b>Cast iron</b>	Shaft Type	<b>Keyed</b>
Shaft Diameter	<b>28 mm</b>	Shaft Extension	<b>60 mm</b>

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Datasheet



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**Model No.** 4-Pole cage motor 6RN 112M 4kW D230V 50Hz IM3041-FF215

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	4	5 1/3	13,7	1460	26	IE3	88,9			0,83			7,90	2,30	3,70
400	Y				7,95												
265	D	60	4,55	6,099	13,4	1760	24,6	IE3	89,7	90,1	89,4	0,83	0,78	0,67	8,17	2,50	3,70
460	Y				7,75												

Motor type	<b>6RN112M04E32</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>112M</b>
Duty	<b>S1</b>
Voltage	<b>230 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>4 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>60 K</b>
Temperature rise surface	
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Rotor type	<b>Cage motor</b>
Bearing type	<b>6306-2Z/C3WT</b>

Type of grease	<b>Unirex N3</b>
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Phase resistance at 20°C	<b>1,2180 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	230%	781%	175%	370%	6,26 A
@ D 265V 60Hz	250%	813%	168%	370%	6,02 A

**NOTE**

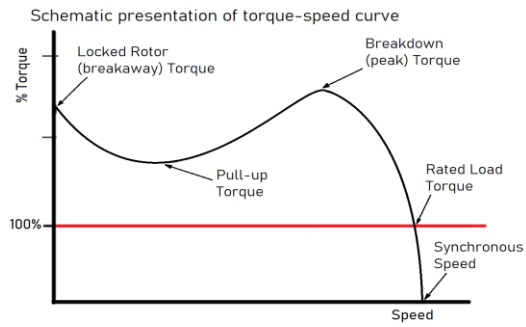
All performance values at rated voltage and frequency.  
 All performance parameters are subjected to standard tolerance as per IEC 60034-1  
 Voltage, Frequency are as per IEC60034-1  
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	<b>IP55</b>
Mounting type	<b>IM3041-FF215</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>48 kg</b>
Gross weight - approx.	<b>49 kg</b>
Motor inertia	<b>0,0170 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>
Noise level (pressure) acc 60034-9	<b>53 dB(A)</b>

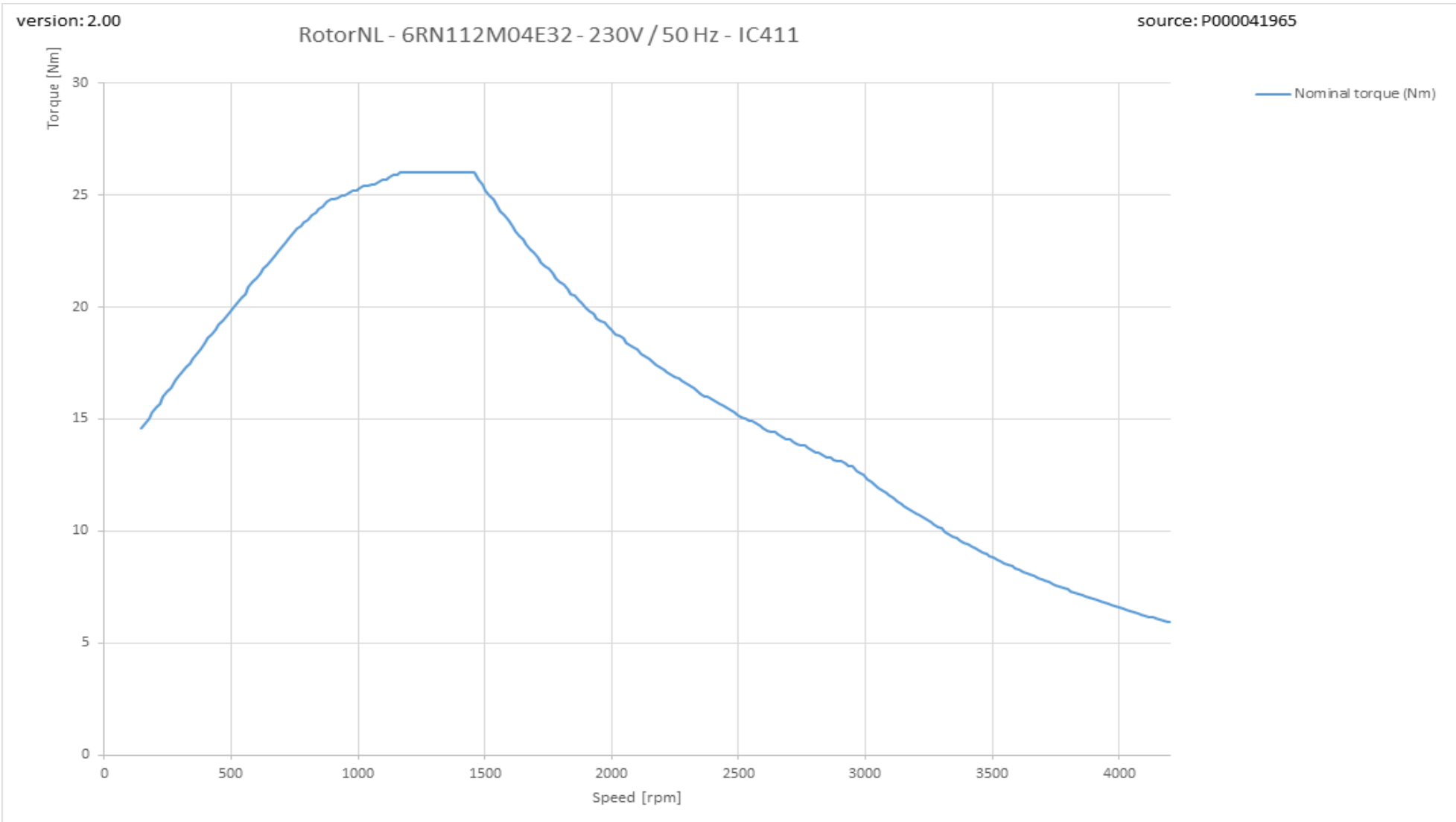
Direction of rotation	<b>cw / ccw</b>
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6RN112M04E32 4-pole 4,00kW D/Y 230/400V 50Hz S1 IC411 IE3

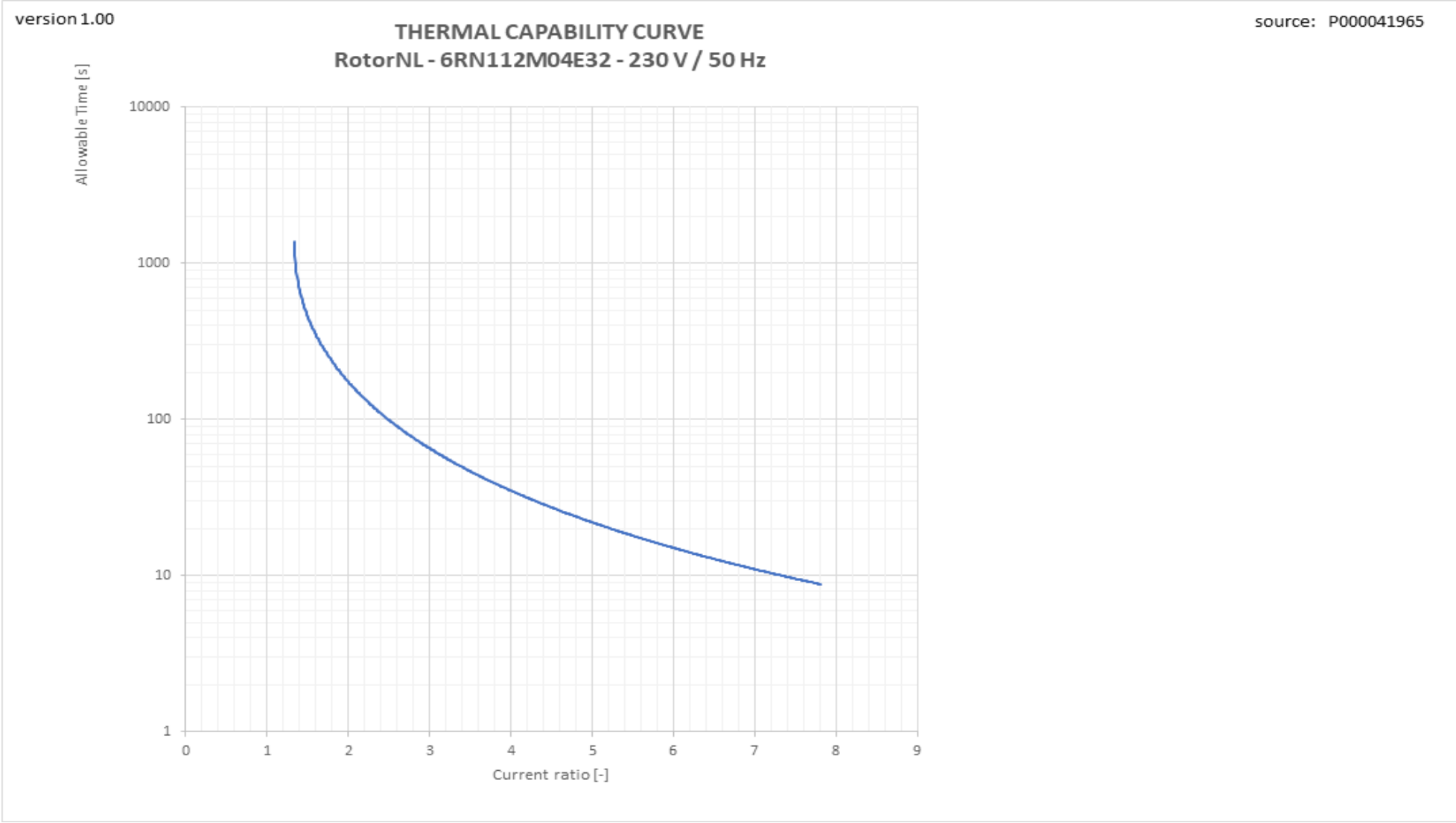


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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Tn graph

