

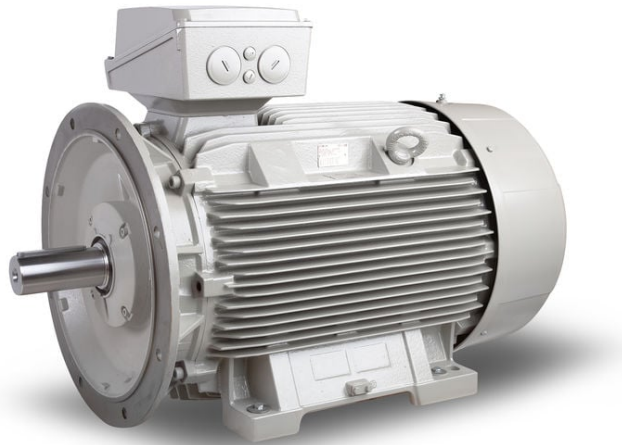
# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN225M02E32U243021

Catalog No: 6RN225M02E32U24@3021

45.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz,  
225M Frame B5, IC411



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## Nameplate Specifications

## Technical Specifications

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Datasheet



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**Model No.** 2-Pole cage motor 6RN 225M 45kW D230V 50Hz IM3021-FF400

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	45	60,32	136	2960	145	IE3	94,4	94,8	94,7	0,88	0,86	0,79	7,28	2,34	3,16
400	Y		78,5														

Motor type	<b>6RN225M02E32</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>225M</b>
Duty	<b>S1</b>
Voltage	<b>230 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>45 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>66 K</b>
Temperature rise surface	<b>32 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>IM3021-FF400</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>320 kg</b>
Gross weight - approx.	<b>330 kg</b>
Motor inertia	<b>0,2600 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>
Noise level (pressure) acc 60034-9	<b>67 dB(A)</b>

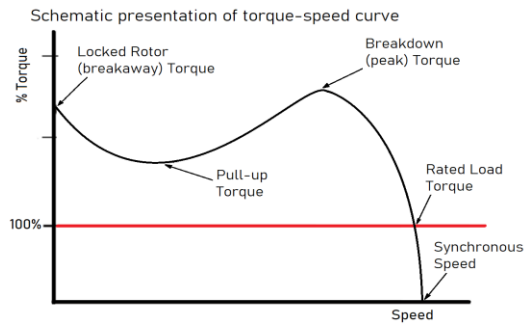
Rotor type	<b>Cage motor</b>
Bearing type	<b>6313/C3</b>
Lubrication method	<b>22gr/4000hrs</b>
Type of grease	<b>Unirex N3</b>

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 230V 50Hz	234%	727%	220%	316%	37,7 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



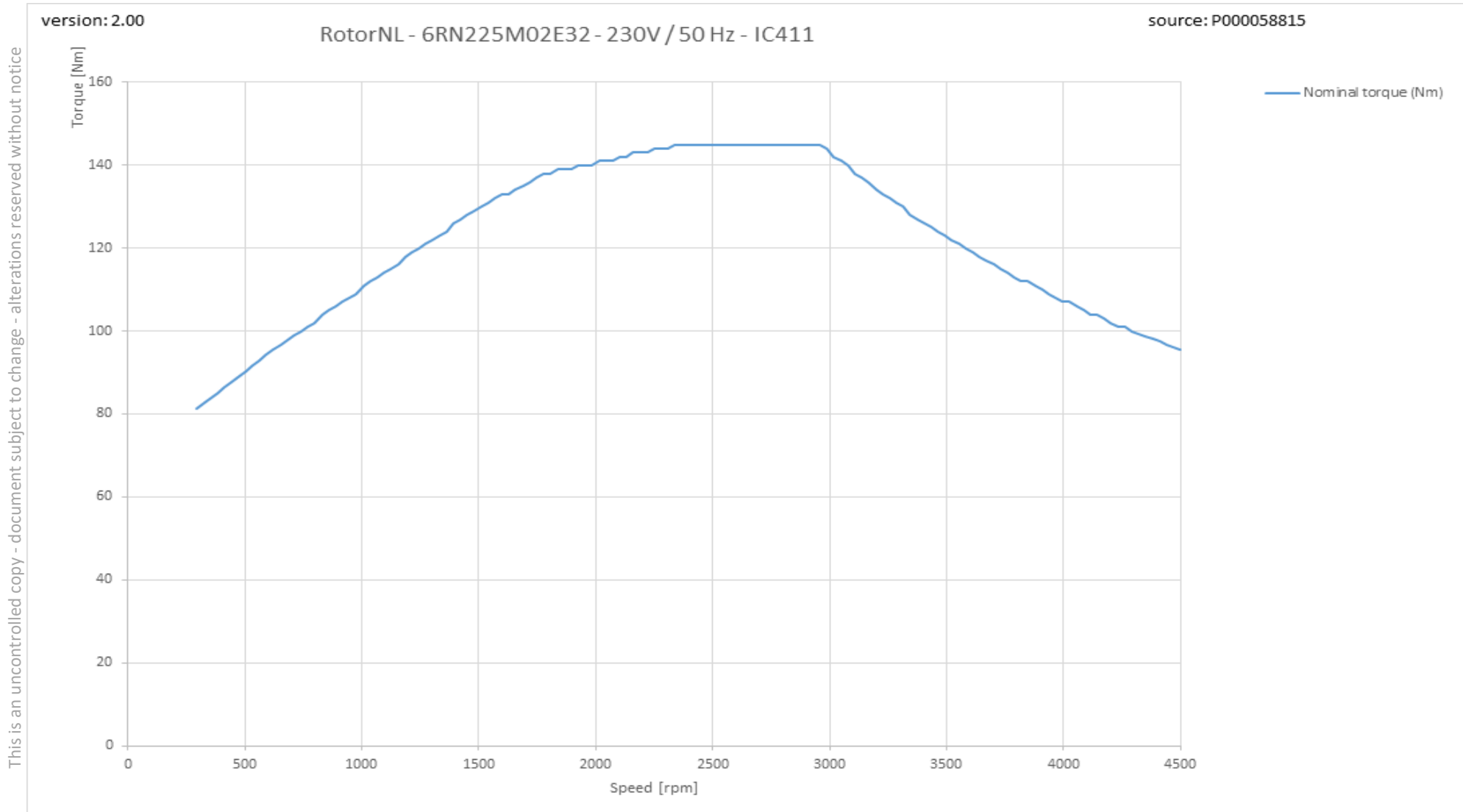
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6RN225M02E32 2-pole 45,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph

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