

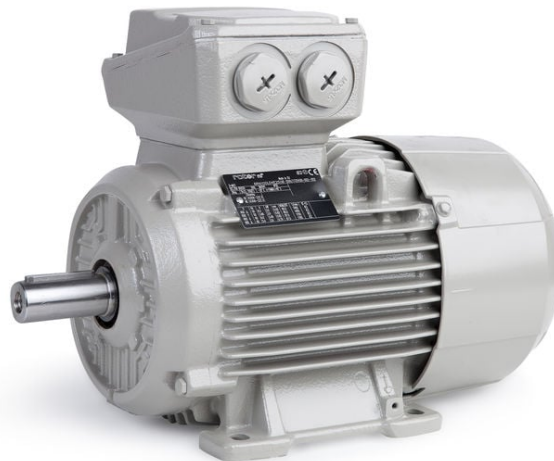
# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN100L02E36U241081

Catalog No: 6RN100L02E36U24@1081

4.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz,  
100L Frame B3, 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>13.00 A</b>	Speed	<b>2895 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>88.1 %</b>	Power Factor	<b>0.88</b>
Duty	<b>S1</b>	Insulation Class	<b>F</b>
Frame	<b>100L</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>2</b>	Rotation	<b>Clockwise Shaft End</b>
Mounting	<b>B3</b>	Motor Orientation	<b>Any</b>
Frame Material	<b>Cast iron</b>	Shaft Type	<b>Keyed</b>
Outline Drawing	<b>6RN100L02E36_1041</b>		

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Datasheet



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**Model No.** 2-Pole cage motor 6RN 100L 4kW 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	4	5 1/3	13	2895	13,1	IE3	88,1			0,88			8,20	3,10	4,10
400	Y				7,5												

Motor type	6RN100L02E36	Degree of protection	IP55
Enclosure	Totally Enclosed Fan Cooling	Mounting type	IM1081
Frame Material	Cast iron	Cooling method	IC411
Frame size	100L	Motor weight - approx.	kg
Duty	S1	Gross weight - approx.	kg
Voltage	230 V	Motor inertia	0,0054 kgm <sup>2</sup>
Frequency	50 Hz	Vibration level	according IEC60034-14
Power output	4 kW		
Insulation class	F		
Ambient temperature	-20 till 40 °C		
Temperature rise	temp.rise acc. B (80K)		
Temperature rise surface			
Altitude above sea level	1000 mtr	Direction of rotation	cw / ccw
Hazardous area classification	Safe area		

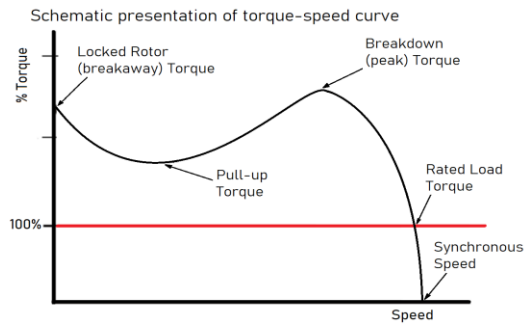
Rotor type	Cage motor
Bearing type	6306-2Z/C3WT
Type of grease	Unirex N3
Country of origin	CZ

Voltage/Freq	Locked rotor Torque [nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	310%	815%		410%	

**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



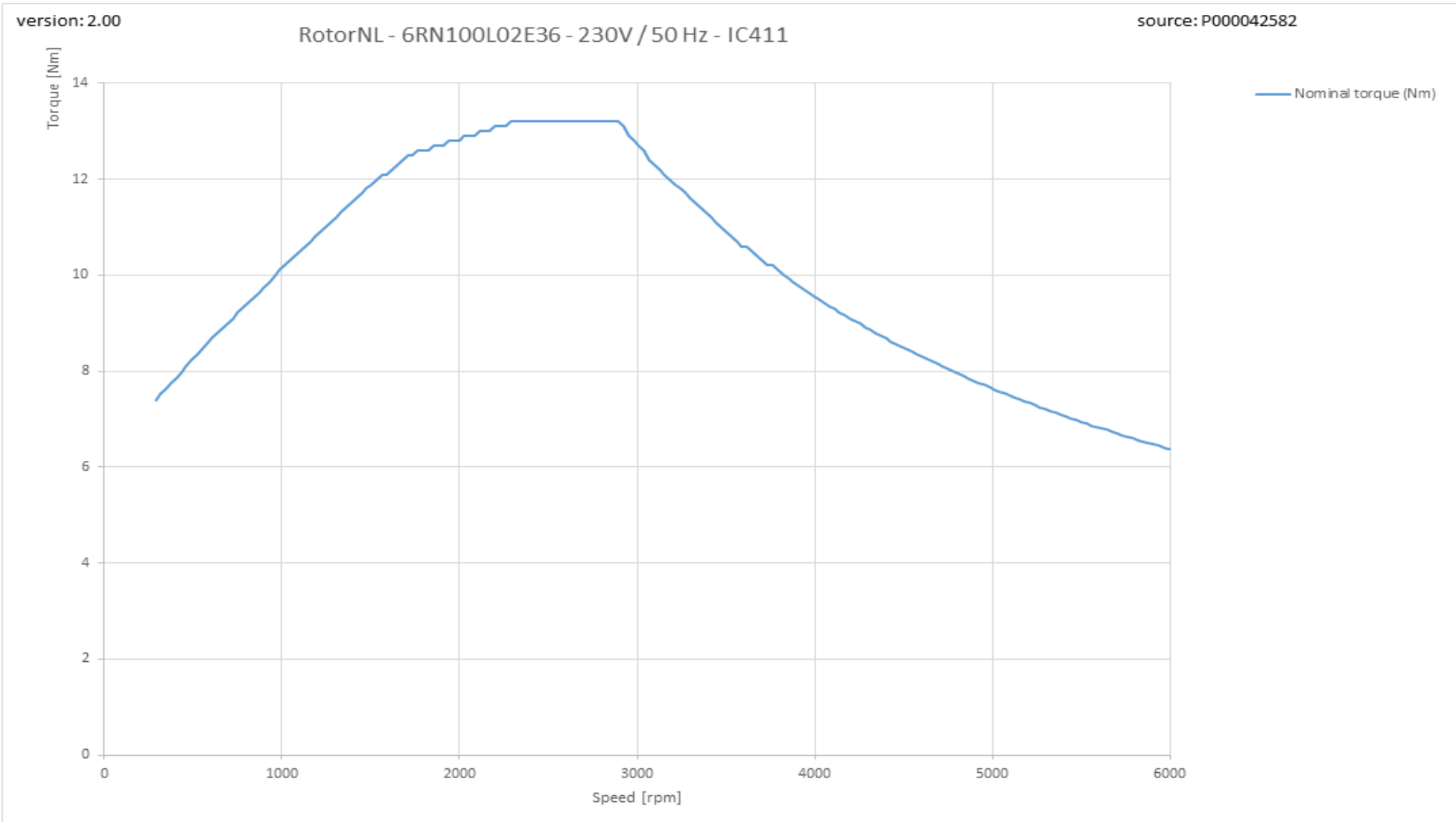
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6RN100L02E36 2-pole 4,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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