

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN100L02E36U24B3641-B

Catalog No: 6RN100L02E36U24B@3641-B

4.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz,
100L Frame B14, IC411



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Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	13.00 A	Speed	2895 rpm
Service Factor	1	Phase	3
Efficiency	88.1 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Clockwise Shaft End
Mounting	B14	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN100L02E36_3641-B		

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Datasheet



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Model No. 2-Pole cage motor 6RN 100L 4kW D230V 50Hz IM3641-FT165

U (V)	Δ / Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I_A/I_N [pu]	T_A/T_N [pu]	T_R/T_N [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	IM3641-FT165
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 ²
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		Direction of rotation	cw / ccw
Altitude above sea level	1000 mtr		
Hazardous area classification	Safe area		

Rotor type	Cage motor
Bearing type	6306-2Z/C3WT

Type of grease	Unirex N3
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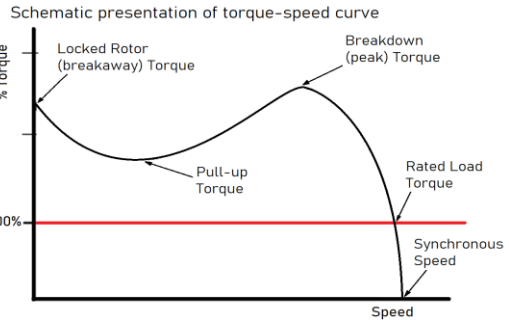
Country of origin	CZ
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	310%	815%		410%	

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

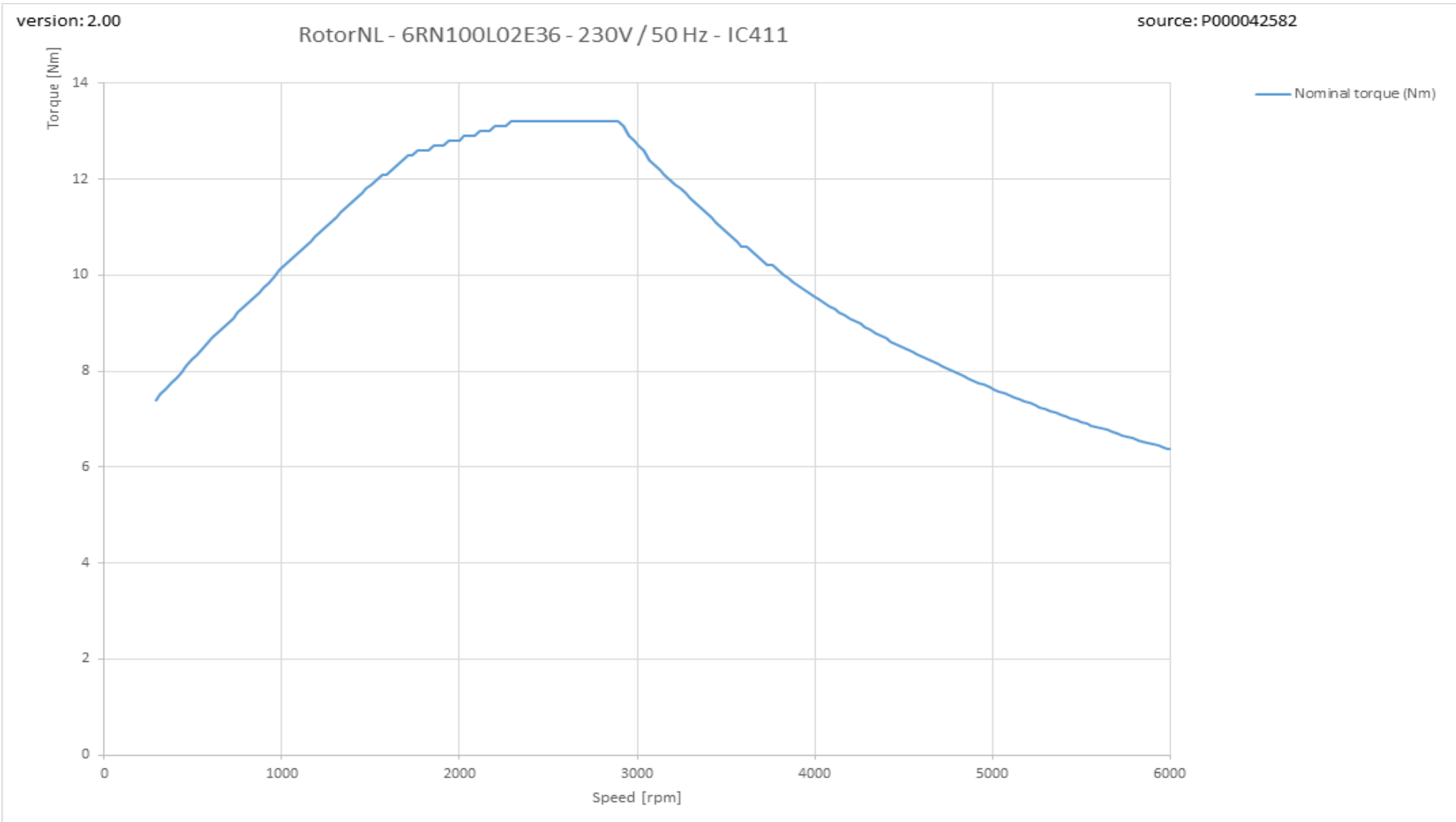
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6RN100L02E36 2-pole 4,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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