

# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN112M06E36U24B3641-B

Catalog No: 6RN112M06E36U24B@3641-B

3.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,  
112M Frame B14, IC411



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### Nameplate Specifications

Output HP	<b>4 Hp</b>	Output KW	<b>3.0 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>D230/Y400 V</b>
Current	<b>11.77 A</b>	Speed	<b>965 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>85.6 %</b>	Power Factor	<b>0.74</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>6</b>	Rotation	<b>Clockwise Shaft End</b>
Mounting	<b>B14</b>	Motor Orientation	<b>Any</b>
Frame Material	<b>Cast iron</b>	Shaft Type	<b>Keyed</b>
Outline Drawing	<b>6RN112M06E36_3041</b>		

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Model No. 6-Pole cage motor 6RN 112M 3kW 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 <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>K</sub> /T <sub>N</sub> [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	3	4	11,7	965	29,7	IE3	85,6			0,74			5,50	2,00	2,70
400	Y				6,8												
265	D	60	3,45	4,625	11,6	1165	28,2	IE2	87,5			0,74					
460	Y				6,73												

Motor type	6RN112M06E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	3 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	56 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM3641-FT165
Cooling method	IC411
Motor weight - approx.	46 kg
Gross weight - approx.	47 kg
Motor inertia	0,0146 kgm <sup>2</sup>
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw

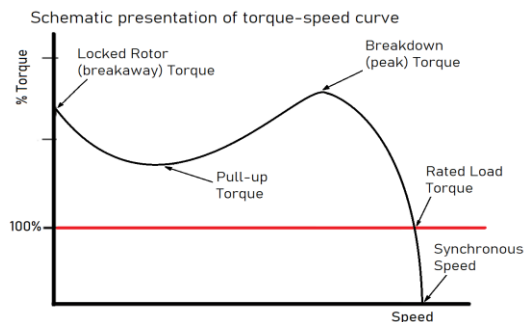
Rotor type	Cage motor
Bearing type	6306-2Z/C3WT - 6306-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	14,4570 Ohm
Country of origin	CZ

	Locked rotor Torque [nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	200%	319%		270%	7,27 A
@ D 265V 60Hz					

**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.

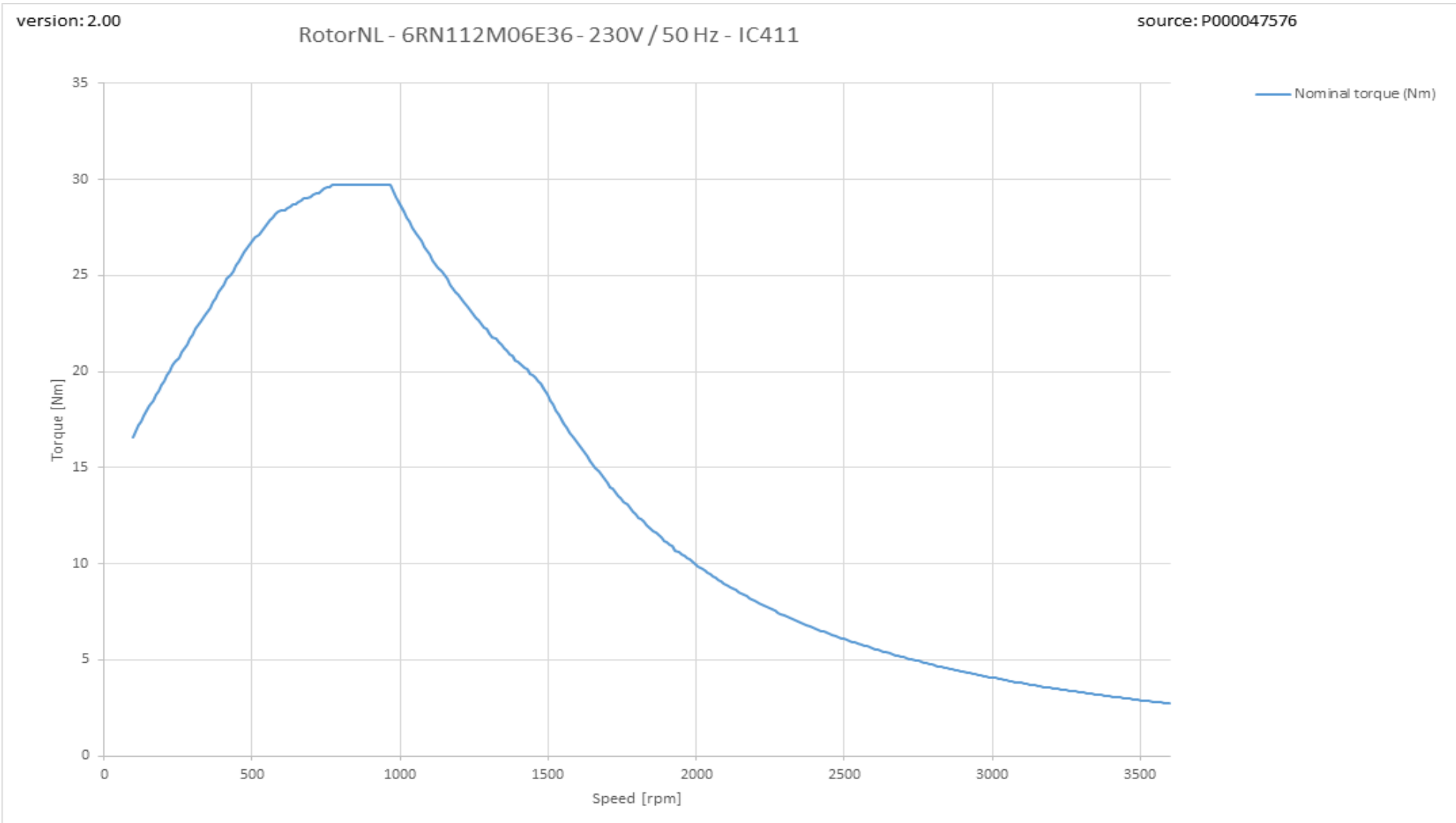
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30



6RN112M06E36 6-pole 3,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm\_VSD graph

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