

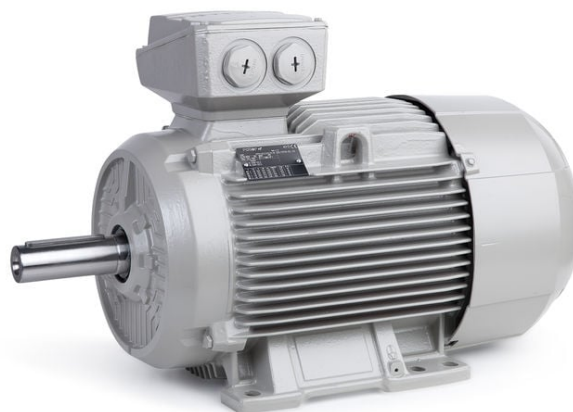
# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN160L04E36U241081

Catalog No: 6RN160L04E36U24@1081

18.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,  
160L Frame B3, IC411



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### Nameplate Specifications

Output HP	<b>25 Hp</b>	Output KW	<b>18.5 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>D400/Y690 V</b>
Current	<b>61.74 A</b>	Speed	<b>1475 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>92.6 %</b>	Power Factor	<b>0.81</b>
Duty	<b>S1</b>	Insulation Class	<b>F</b>
Frame	<b>160L</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>6309-2Z/C3WT (-40°C/+160°C)</b>	Opp Drive End Bearing Size	<b>6309-2Z/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>B3</b>	Motor Orientation	<b>Any</b>
Frame Material	<b>Cast iron</b>	Shaft Type	<b>Keyed</b>
Outline Drawing	<b>6RN160L04E36_1041</b>		

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Datasheet



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Model No. 4-Pole cage motor 6RN 160L 18,5kW 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	18,5	24,8	61,7	1475	120	IE3	92,6	92,9	92,3	0,81	0,77	0,67	7,90	2,90	3,90
400	Y				36,6												
265	D	60	21,3	28,55	60,8	1775	115	IE3	93,6	93,8	93,1	0,82	0,79	0,70	8,00	2,80	3,80
460	Y				35,1												

Motor type	6RN160L04E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160L
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	18,5 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
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	132 kg
Gross weight - approx.	136 kg
Motor inertia	0,1010 kgm <sup>2</sup>
Vibration level	according IEC60034-14

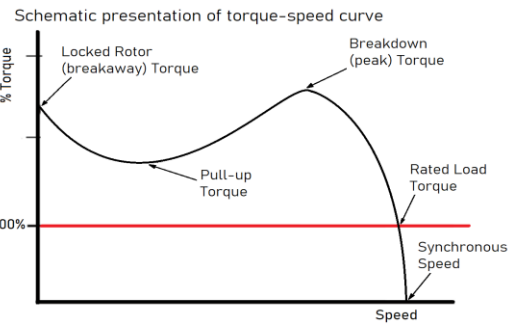
Rotor type	Cage motor
Bearing type	6309-2Z/C3WT
Type of grease	Unirex N3

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	290%	789%		390%	
@ D 265V 60Hz	280%	799%		380%	

**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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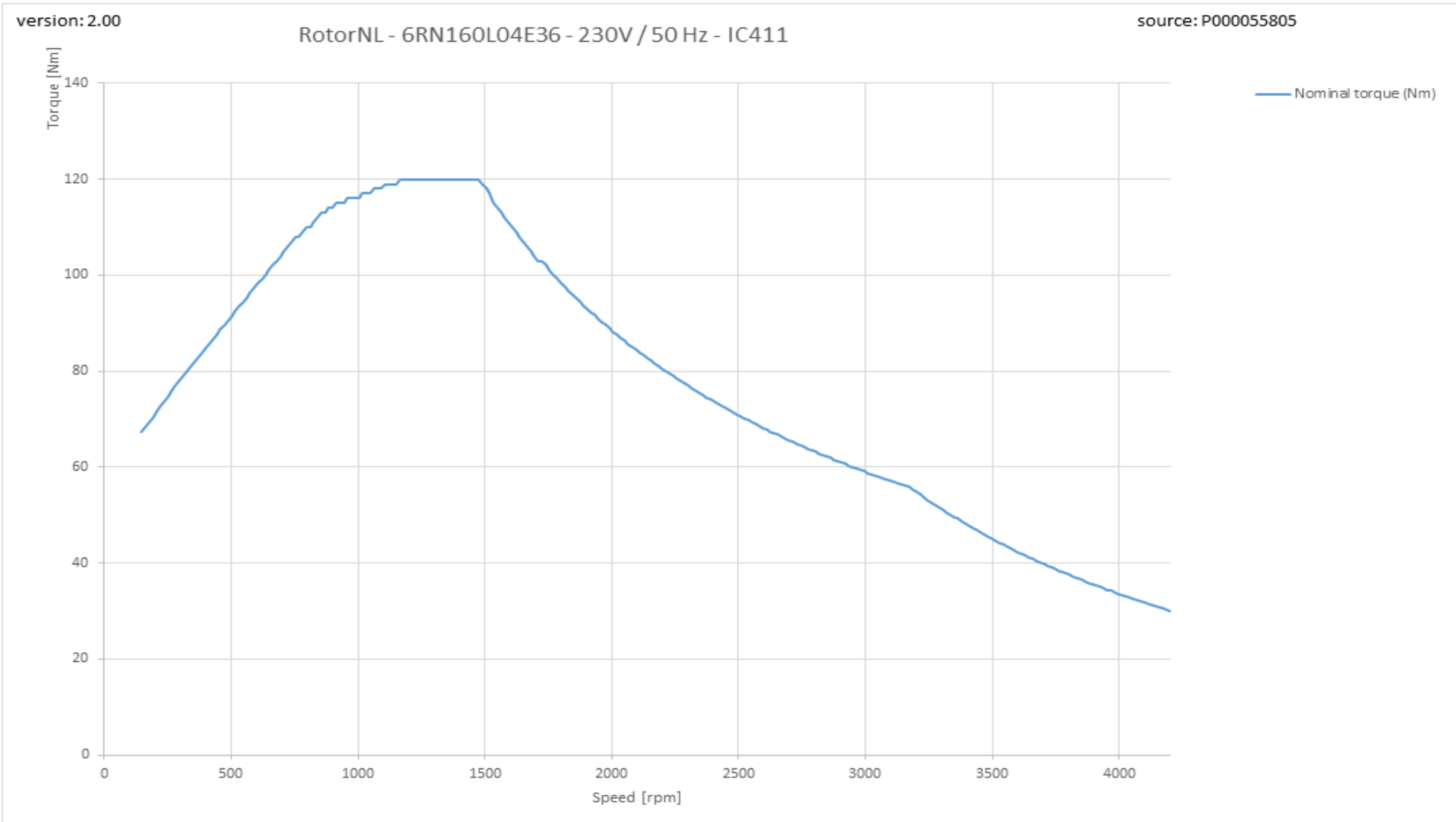


V2.07

6RN160L04E36 4-pole 18,50kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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