

# PRODUCT INFORMATION PACKET



Model No: 6RN100L04E44U46B2181-A

Catalog No: 6RN100L04E44U46B@2181-A

2.20 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,  
100L Frame B34, IC411

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### Nameplate Specifications

Output HP	3.00 Hp	Output KW	2.2 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	4.51 A	Speed	1465 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	0.79
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	IE4

### Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B34	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN100L04E44_2141-A		

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# Datasheet



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**Model No.** 4-Pole cage motor 6RN 100L 2,2kW D400V 50Hz IM2181-FT130

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			
400	D	50	2,2	3	4,5	1465	14,3	IE4	89,5	89,6	88,3	0,79	0,73	0,61	9,72	3,28	4,66
690	Y		2,6														
460	D	60	2,55	3,418	3,9	1770	13,7	IE4	90,3	89,9	88,1	0,77	0,70	0,58	10,10	3,35	4,70

Motor type	<b>6RN100L04E44</b>	Degree of protection	<b>IP55</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>	Mounting type	<b>IM2181-FT130</b>
Frame Material	<b>Cast iron</b>	Cooling method	<b>IC411</b>
Frame size	<b>100L</b>	Motor weight - approx.	<b>39 kg</b>
Duty	<b>S1</b>	Gross weight - approx.	<b>40 kg</b>
Voltage	<b>400 V</b>	Motor inertia	<b>0,0140 kgm<sup>2</sup></b>
Frequency	<b>50 Hz</b>	Vibration level	<b>according IEC60034-14</b>
Power output	<b>2,2 kW</b>	Noise level (pressure) acc 60034-9	<b>63 dB(A)</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>28 K</b>		
Temperature rise surface			
Altitude above sea level	<b>1000 mtr</b>	Direction of rotation	<b>cw / ccw</b>
Hazardous area classification	<b>Safe area</b>		

Rotor type	<b>Cage motor</b>
Bearing type	<b>6306-2Z/C3WT</b>
Type of grease	<b>Unirex N3</b>
Phase resistance at 20°C	<b>4,9350 Ohm</b>
Country of origin	<b>CZ</b>

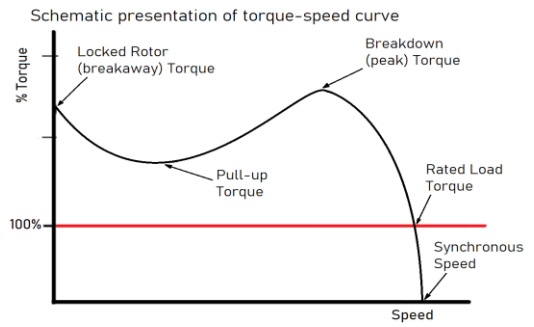
Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	328%	973%	224%	466%	2,36 A
@ D 460V 60Hz	335%	1158%	229%	470%	2,18 A

**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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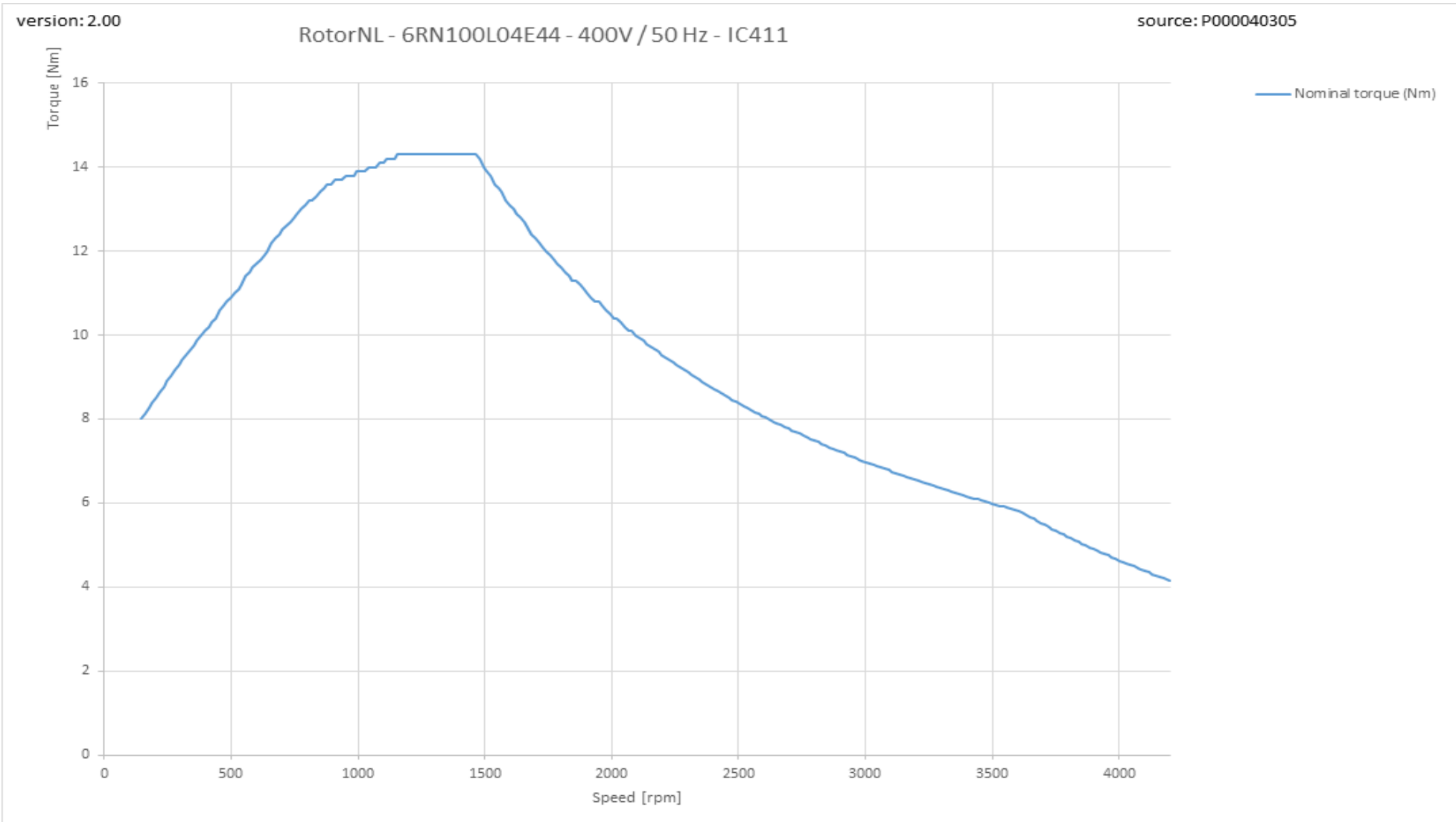


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6RN100L04E44 4-pole 2,20kW D/Y 400/690V 50Hz S1 IC411 IE4



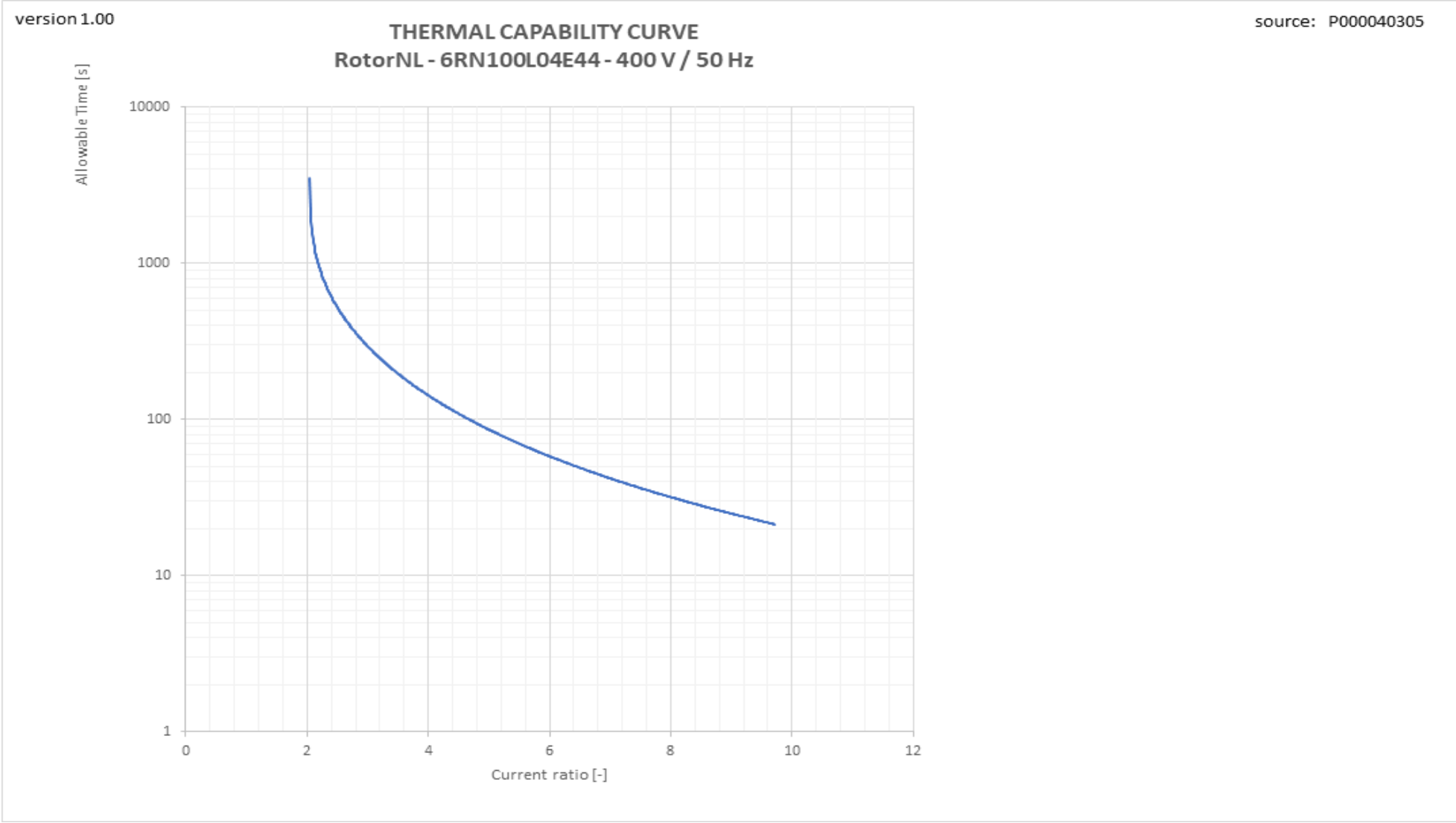
Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph

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Tn graph

