

# PRODUCT INFORMATION PACKET



Model No: 6RN180L04E44U243021

Catalog No: 6RN180L04E44U24@3021

22.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D230/Y400V 50Hz,  
180L Frame B5, IC411

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## Nameplate Specifications

## Technical Specifications

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## Datasheet

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**Model No.** 4-Pole cage motor 6RN 180L 22kW D230V 50Hz IM3021-FF600

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __load FL 3/4FL 1/2FL	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]
230	D	50	22	30	72	1472	142	IE3	94,0	0,82	8,72	2,90	3,81
400	Y				41,6								

Motor type	6RN180L04E44
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	180L
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	22 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	47 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6310-2Z/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	290%	869%		381%	31,6 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.

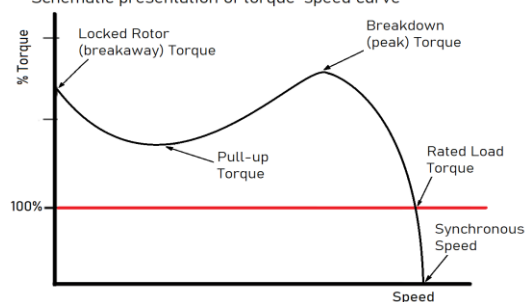
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM3021-FF600
Cooling method	IC411
Motor weight - approx.	192 kg
Gross weight - approx.	198 kg
Motor inertia	0,1800 kgm <sup>2</sup>
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	62 dB(A)

Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



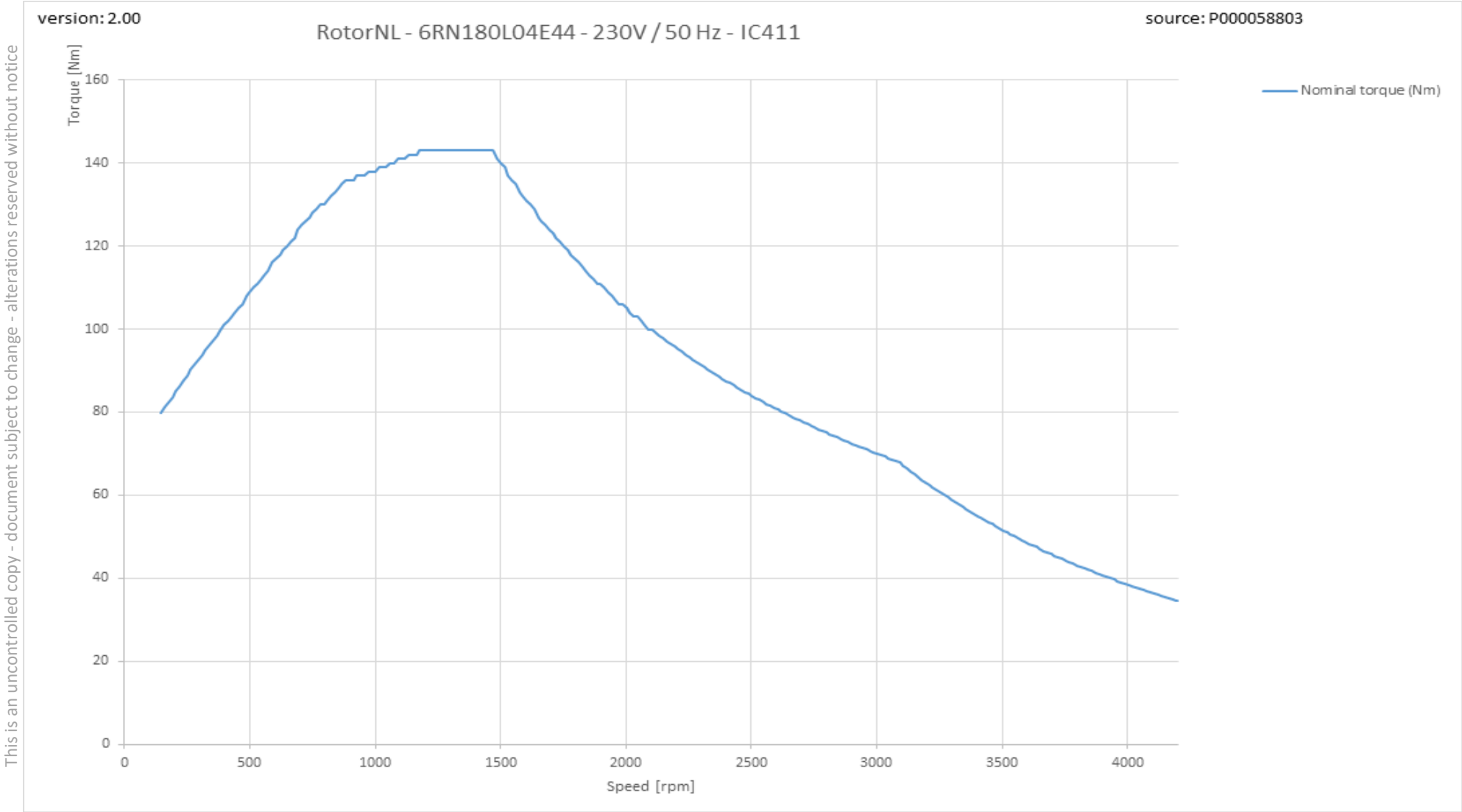
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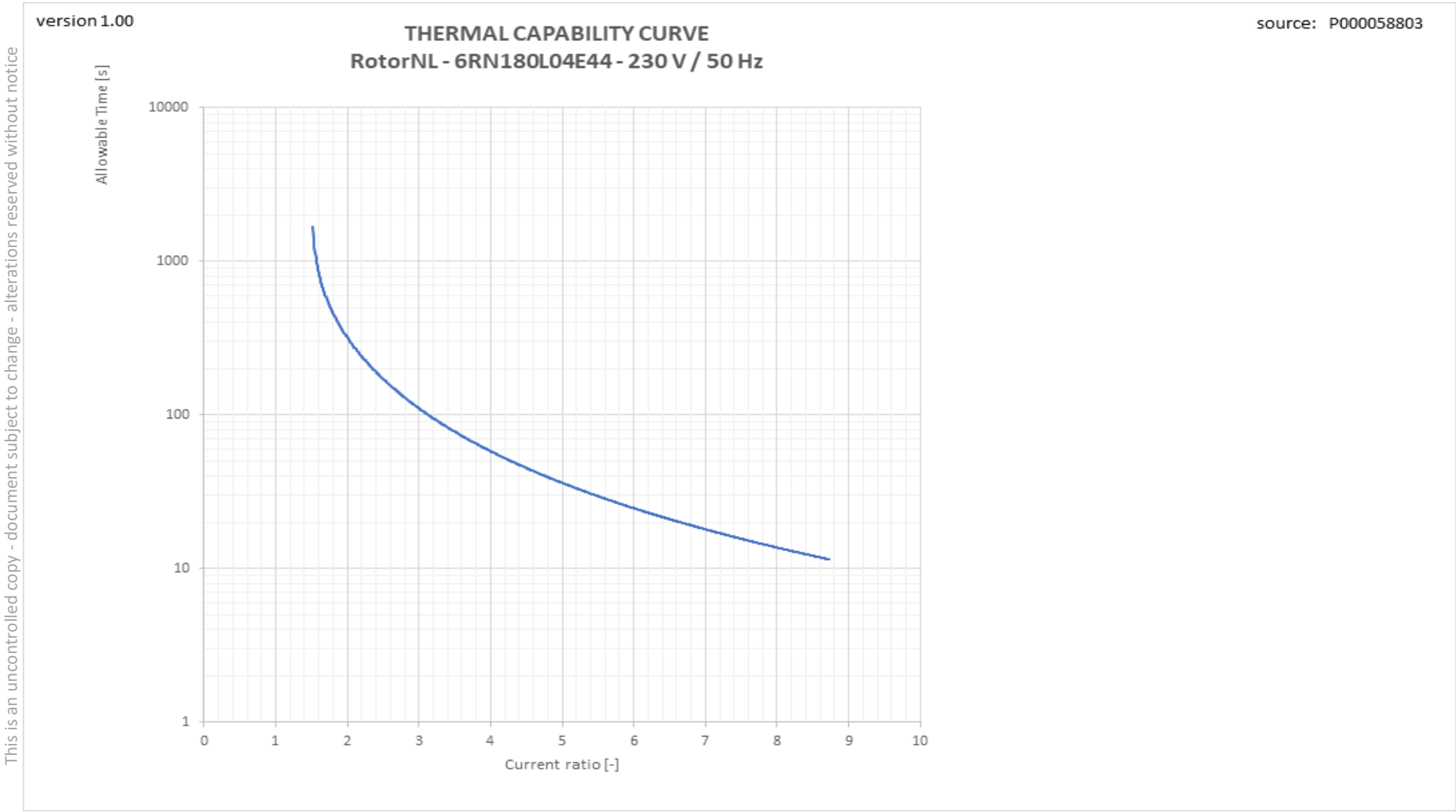
6RN180L04E44 4-pole 22,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm\_VSD graph



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