

PRODUCT INFORMATION PACKET



Model No: 6RN100L04E45U243041

Catalog No: 6RN100L04E45U24@3041

3.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D230/Y400V 50Hz,
100L Frame B5, IC411

Regal and Rotor nl are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

Technical Specifications

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:01/19/2023

Datasheet



Mors 1-5, 7151 MX Eibergen NL
 www.rotor.nl tel.: +31 545 464640
 sales@rotor.nl tel.: +31 545 464646

Model No. 4-Pole cage motor 6RN 100L 3kW D230V 50Hz IM3041-FF215

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	3	4	10,1	1460	19,5	IE4	91,2	91,3	90,2	0,80	0,73	0,61	9,25	3,49	4,24
400	Y				5,8												

Motor type	6RN100L04E45	Degree of protection	IP55
Enclosure	Totally Enclosed Fan Cooling	Mounting type	IM3041-FF215
Frame Material	Cast iron	Cooling method	IC411
Frame size	100L	Motor weight - approx.	50 kg
Duty	S1	Gross weight - approx.	52 kg
Voltage	230 V	Motor inertia	0,0160 kgm²
Frequency	50 Hz	Vibration level	according IEC60034-14
Power output	3 kW	Noise level (pressure) acc 60034-9	63 dB(A)
Insulation class	F		
Ambient temperature	-20 till 40 °C		
Temperature rise	temp.rise acc. B (80K)		
Temperature rise winding	26 K		
Temperature rise surface			
Altitude above sea level	1000 mtr	Direction of rotation	cw / ccw
Hazardous area classification	Safe area		

Rotor type	Cage motor
Bearing type	6306-2Z/C3WT
Type of grease	Unirex N3
Country of origin	CZ

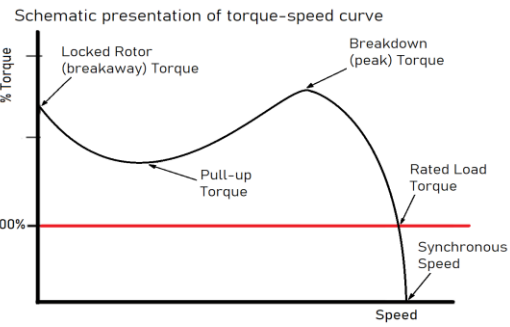
Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	349%	947%	232%	424%	4,87 A

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

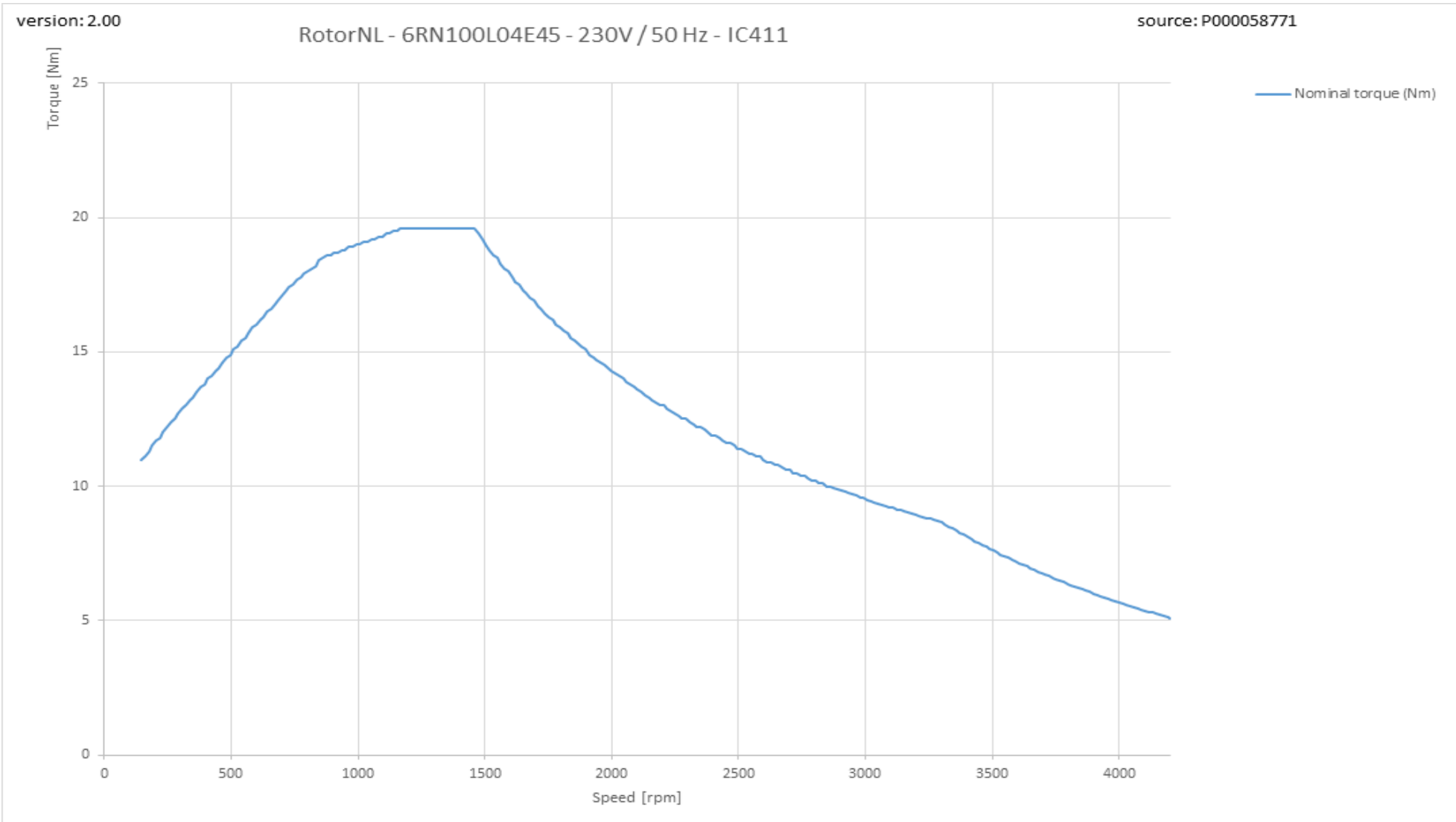
This is an uncontrolled copy, data can be changed anytime.



6RN100L04E45 4-pole 3,00kW D/Y 230/400V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



This is an uncontrolled copy - document subject to change - alterations reserved without notice

Therm_VSD graph

This is an uncontrolled copy - document subject to change - alterations reserved without notice

