# PRODUCT INFORMATION PACKET



Model No: 6RN100L04E45U241081
Catalog No: 6RN100L04E45U24@1081
3.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D230/Y400V 50Hz, 100L Frame B3, IC411



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Nameplate Specifications

**Technical Specifications** 

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## **Datasheet**





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cw/ccw

Model No.

4-Pole cage motor 6RN 100L 3kW D230V 50Hz IM1081

U	Δ/Υ	f	Р	Р	ı	n	T	IE	% EI	F at	load	PF	atlo	ad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</sub>	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
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	Υ				5,8													

Direction of rotation

Motor type	6RN100L04E45
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	Cast iron
Frame size	100L
Duty	<b>S1</b>
Voltage	230 V
Frequency	<b>50</b> Hz
Power output	3 kW
Insulation class	F
Ambient temperature	<b>-20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	<b>26</b> K
Temperature rise surface	
Altitude above sea level	<b>1000</b> mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	<b>50</b> kg
Gross weight - approx.	<b>52</b> kg
Motor inertia	<b>0,0160</b> kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	<b>63</b> dB(A)

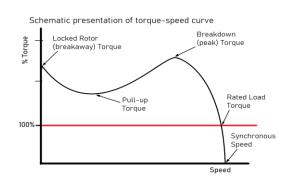
Rotor type	Cage motor
Bearing type	6306-2Z/C3WT

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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	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 rotor is a ISO 9001 certified company

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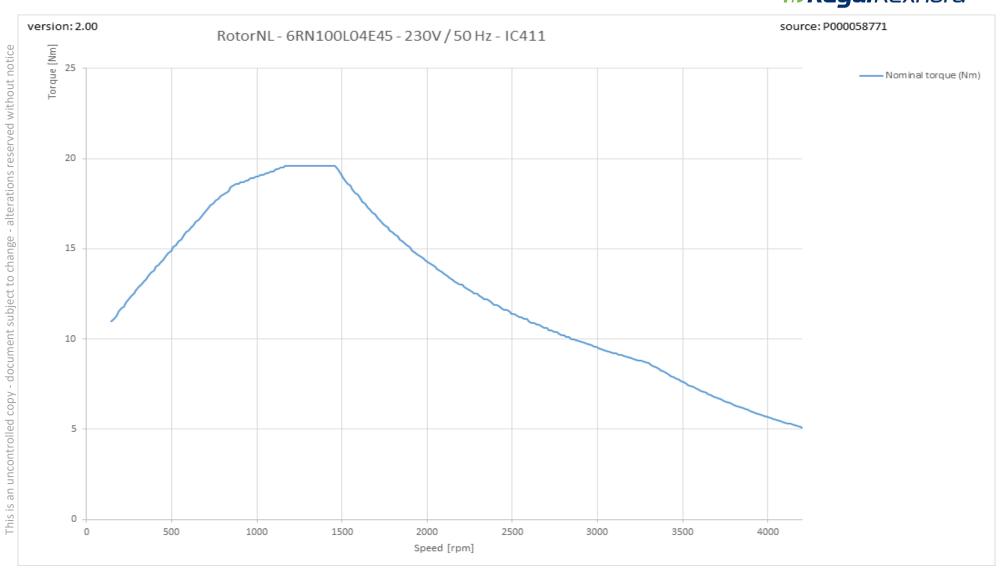


## 6RN100L04E45 4-pole 3,00kW D/Y 230/400V 50Hz S1 IC411 IE4



**FRegal**Rexnord

Torque versus Speed curve with variable frequency drive



# Therm\_VSD graph

