

PRODUCT INFORMATION PACKET



Model No: 6RN80M02E36U241081

Catalog No: 6RN80M02E36U24@1081

1.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz, 80 Frame B3, IC411



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Nameplate Specifications

Efficiency Class

IE3

Technical Specifications

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Datasheet

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Model No. 2-Pole cage motor 6RN 80 1,5kW D230V 50Hz IM1081

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	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]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	1,5	2	5,3	2865	5	IE3	84,2			0,84			8,00	3,20	3,70
400	Y				3,05												
265	D	60	1,75	2 1/3	5,2	3455	4,86	IE3	86,3			0,85			8,79	3,90	4,00
460	Y				3												

Motor type	6RN80M02E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	80
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	40 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6004-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	2,9890 Ohm
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	320%	800%		370%	1,27 A
@ D 265V 60Hz	390%	878%		400%	1,97 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

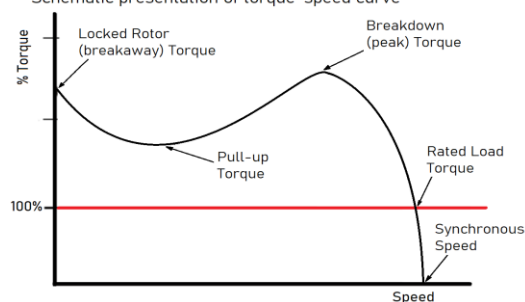
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Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	15 kg
Gross weight - approx.	15 kg

Vibration level	according IEC60034-14
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Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



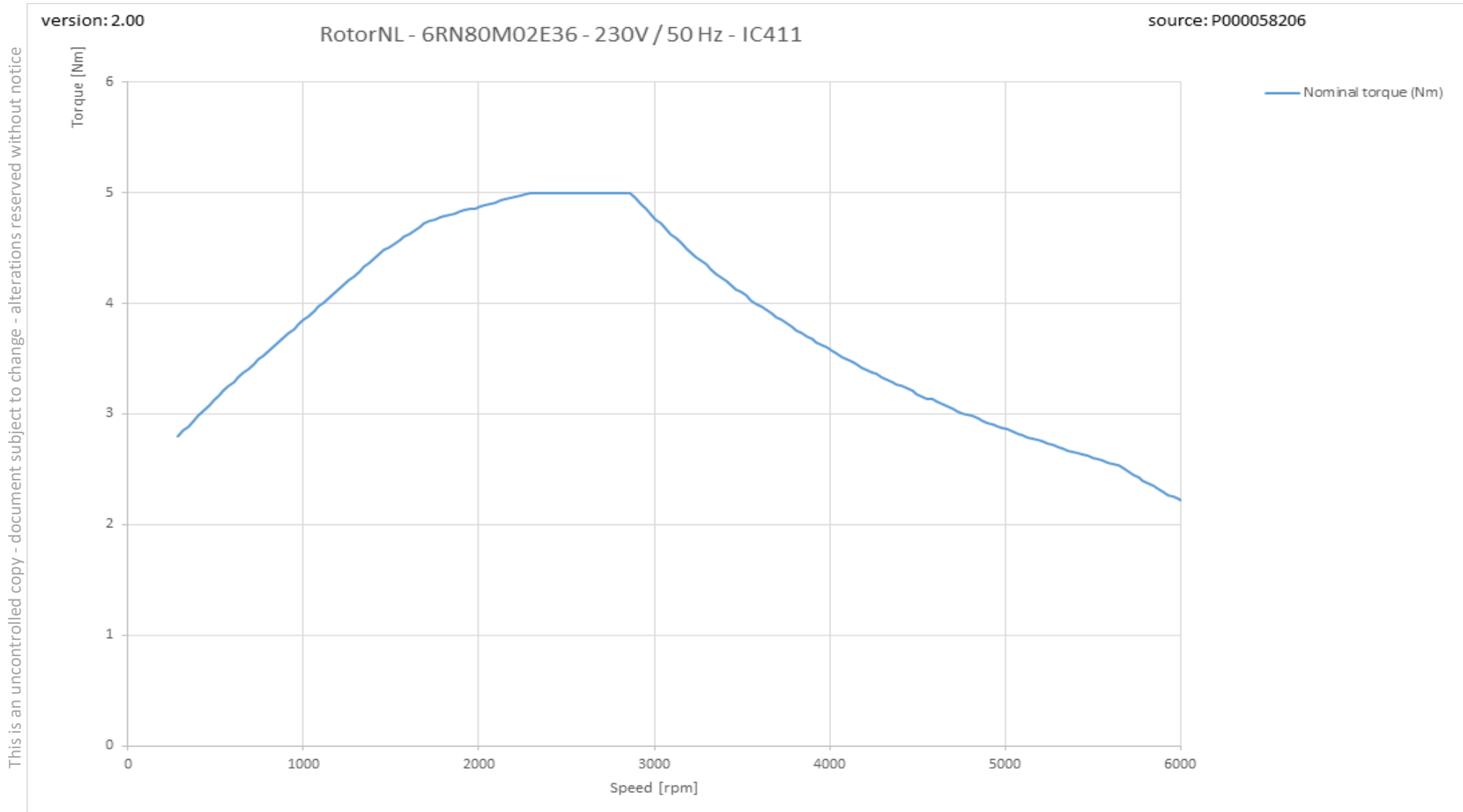
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6RN80M02E36 2-pole 1,5kW D/Y 230/400V 50Hz S1 IC411 IE3

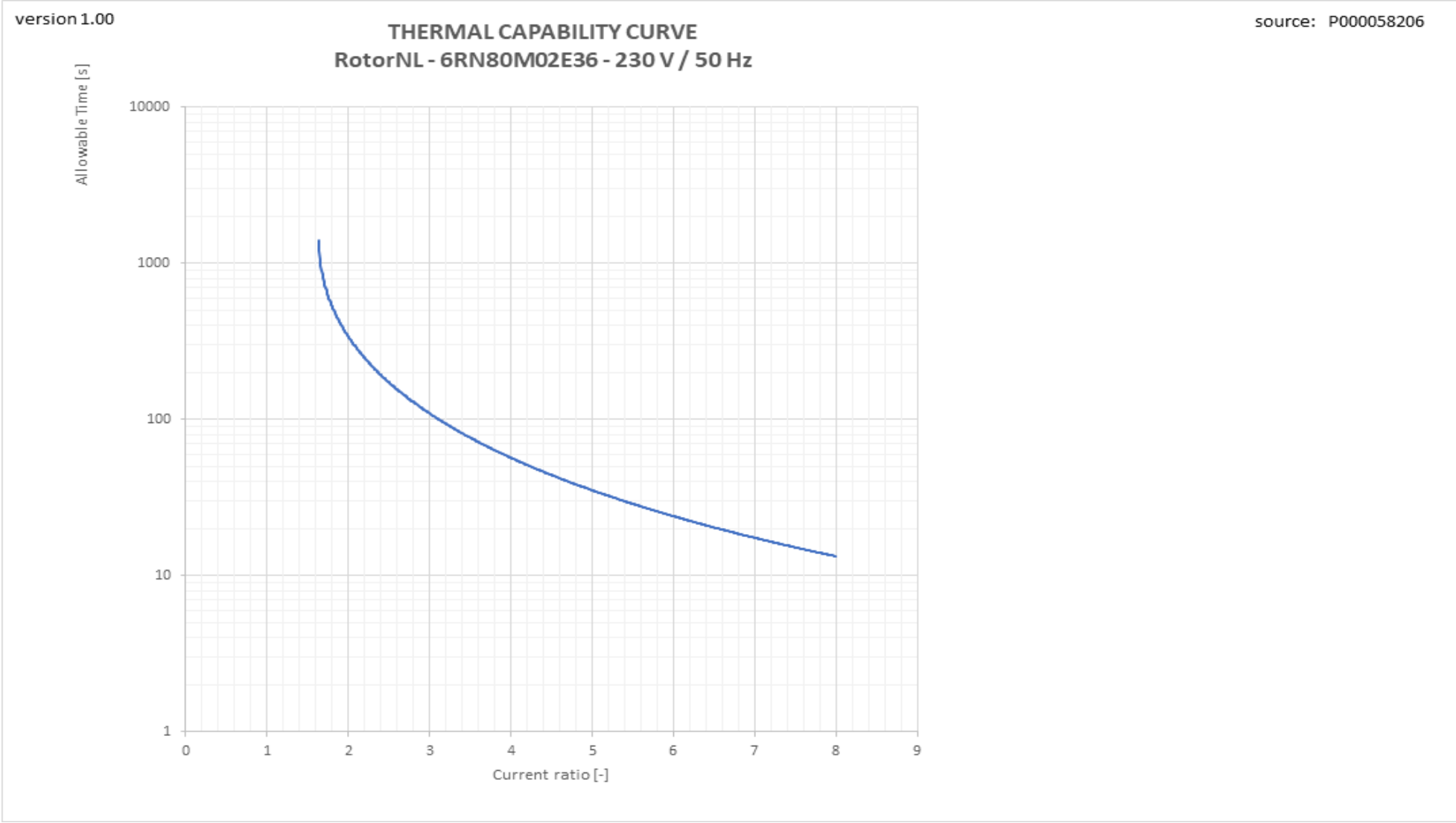


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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