

PRODUCT INFORMATION PACKET



Model No: 6RN112M02E42U241081

Catalog No: 6RN112M02E42U24@1081

4.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 3000 rpm, D230/Y400V 50Hz,
112M Frame B3, IC411

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Nameplate Specifications

Technical Specifications

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Datasheet

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Model No. 2-Pole cage motor 6RN 112M 4kW 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 FL 3/4FL 1/2FL	PF at __load FL 3/4FL 1/2FL	I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
230	D	50	4	5 1/3	12,5	2948	12,9	IE3	89,6	0,90	9,85	2,56	4,05
400	Y				7,2								

Motor type	6RN112M02E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	4 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	42 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6306-2Z/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	256%	984%	187%	405%	4,1 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.

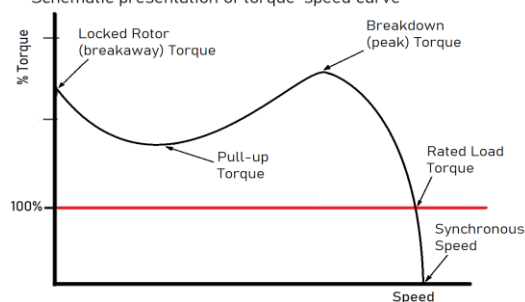
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	46 kg
Gross weight - approx.	47 kg
Motor inertia	0,0120 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	69 dB(A)

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



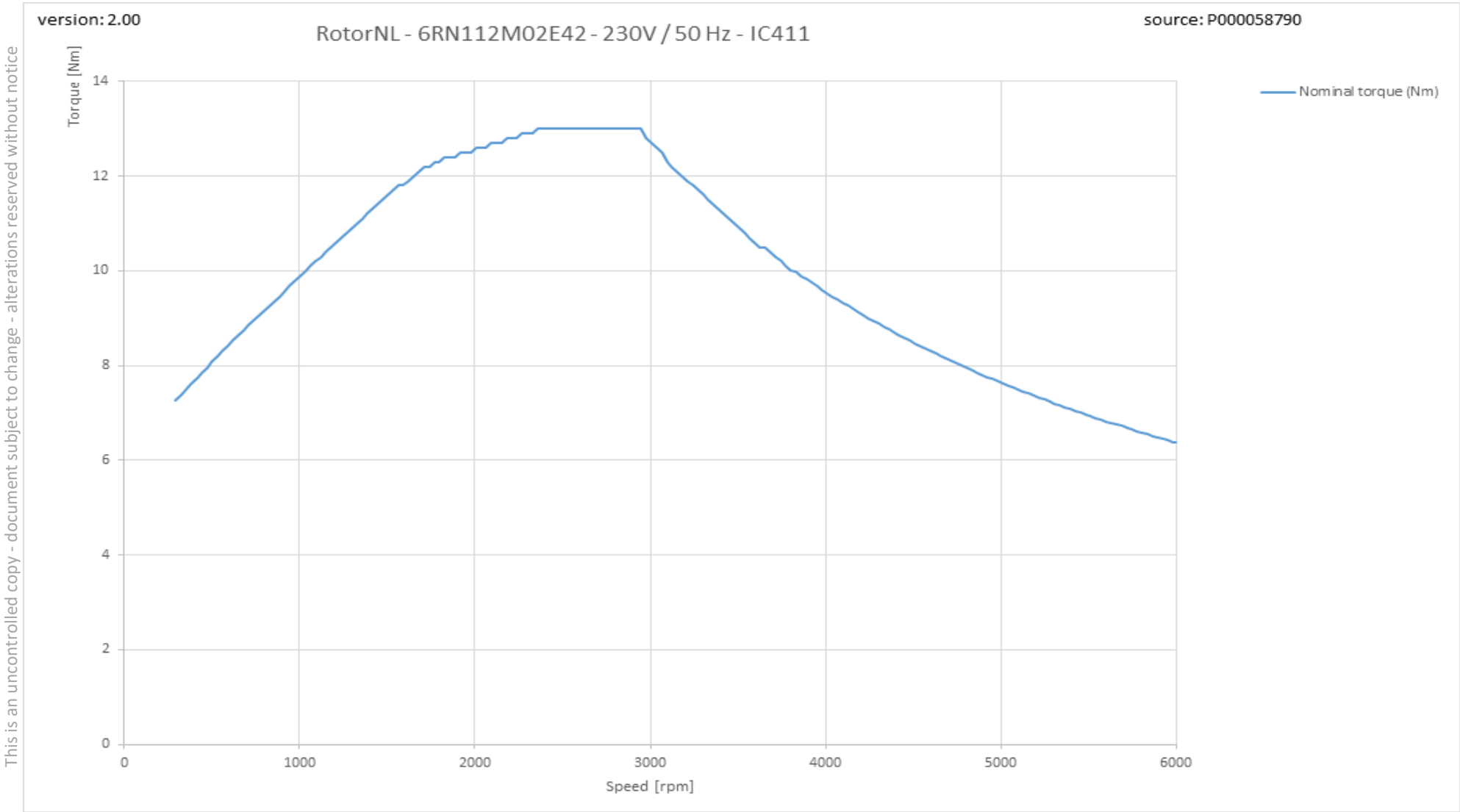
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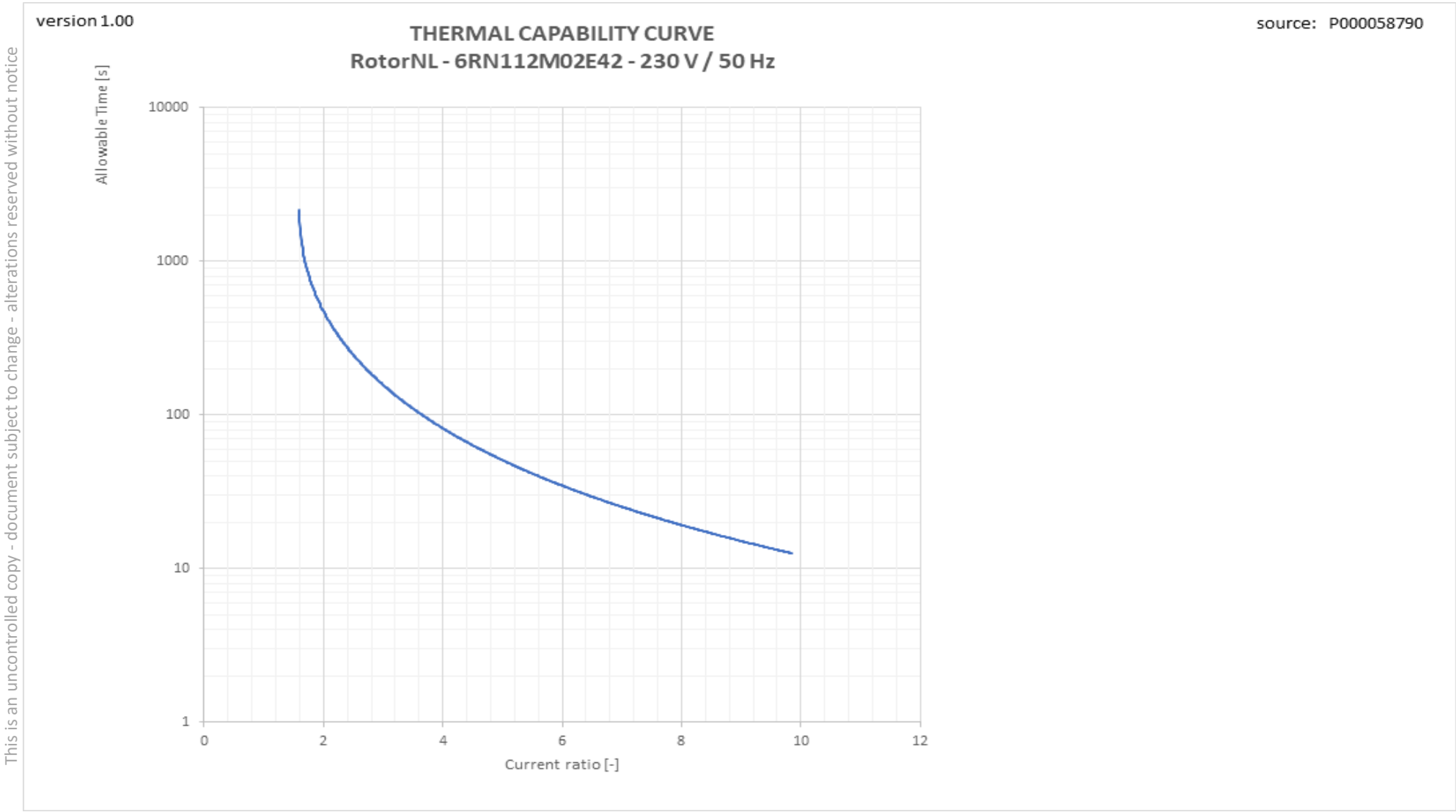
6RN112M02E42 2-pole 4,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



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