PRODUCT INFORMATION PACKET

Model No: 6RN112M02E42U461081
Catalog No: 6RN112M02E42U46@1081
4.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 3000 rpm, D400/Y690V 50Hz,
112M Frame B3, IC411

Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	7.21 A	Speed	2950 rpm
Service Factor	1	Phase	3
Efficiency	90 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN112M02E42_1041		

Datasheet

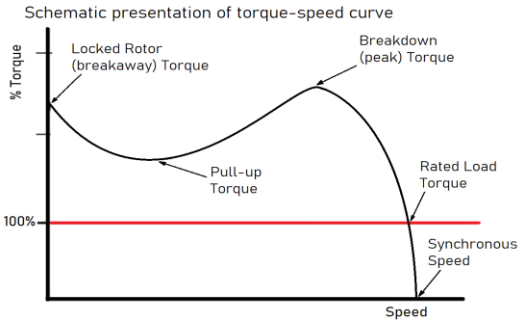
rotor nl®

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

Model No. 2-Pole cage motor 6RN 112M 4kW D400V 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]
400	D	50	4	5 1/3	7,21	2950	12,9	IE4	89,7	90,1	89,3	0,89	0,86	0,79	9,81	2,58	4,08
690	Y				4,16												
460	D	60	4,55	6,099	7,2	3550	12,2	IE4	89,8	89,4	87,6	0,88	0,84	0,76	10,10	2,64	4,16

Motor type	**6RN112M02E42**		Degree of protection	**IP55**	
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM1081**	
Frame Material	**Cast iron**		Cooling method	**IC411**	
Frame size	**112M**		Motor weight - approx.	**43**	kg
Duty	**S1**		Gross weight - approx.	**44**	kg
Voltage	**400**	V	Motor inertia	**0,0120**	kgm²
Frequency	**50**	Hz			
Power output	**4**	kW	Vibration level	**according IEC60034-14**	
			Noise level (pressure) acc 60034-9	**69**	dB(A)
Insulation class	**F**				
Ambient temperature	**-20 till 40**	°C			
Temperature rise	**temp.rise acc. B (80K)**				
Temperature rise winding	**42**	K			
Temperature rise surface			Direction of rotation	**cw /ccw**	
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**				
Phase resistance at 20°C	**3,0330**	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 400V 50Hz	258%	983%	189%	408%	2,36 A
@ D 460V 60Hz	264%	1011%	174%	416%	2,16 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

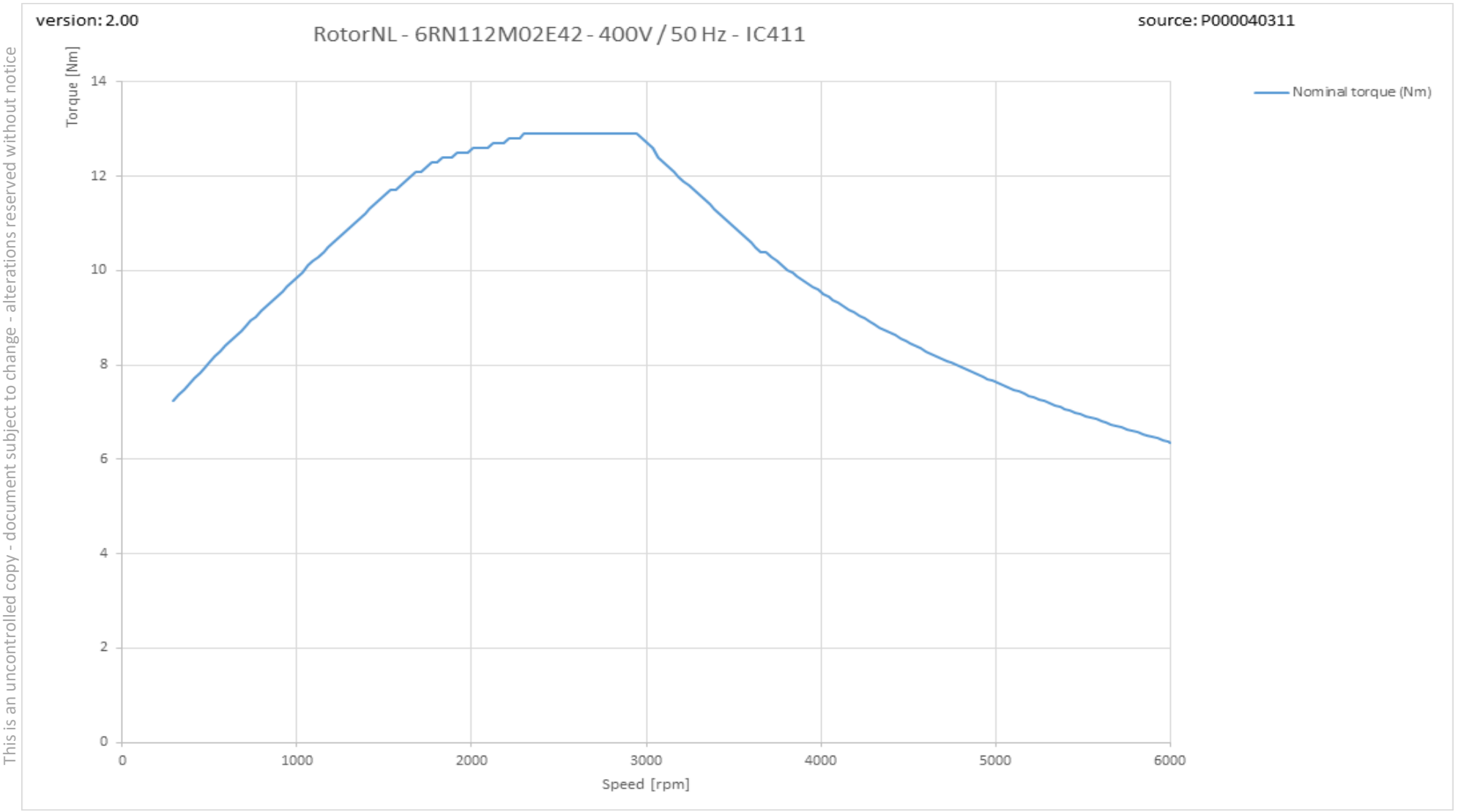
rotor is a ISO 9001 certified company

RegalRexnord

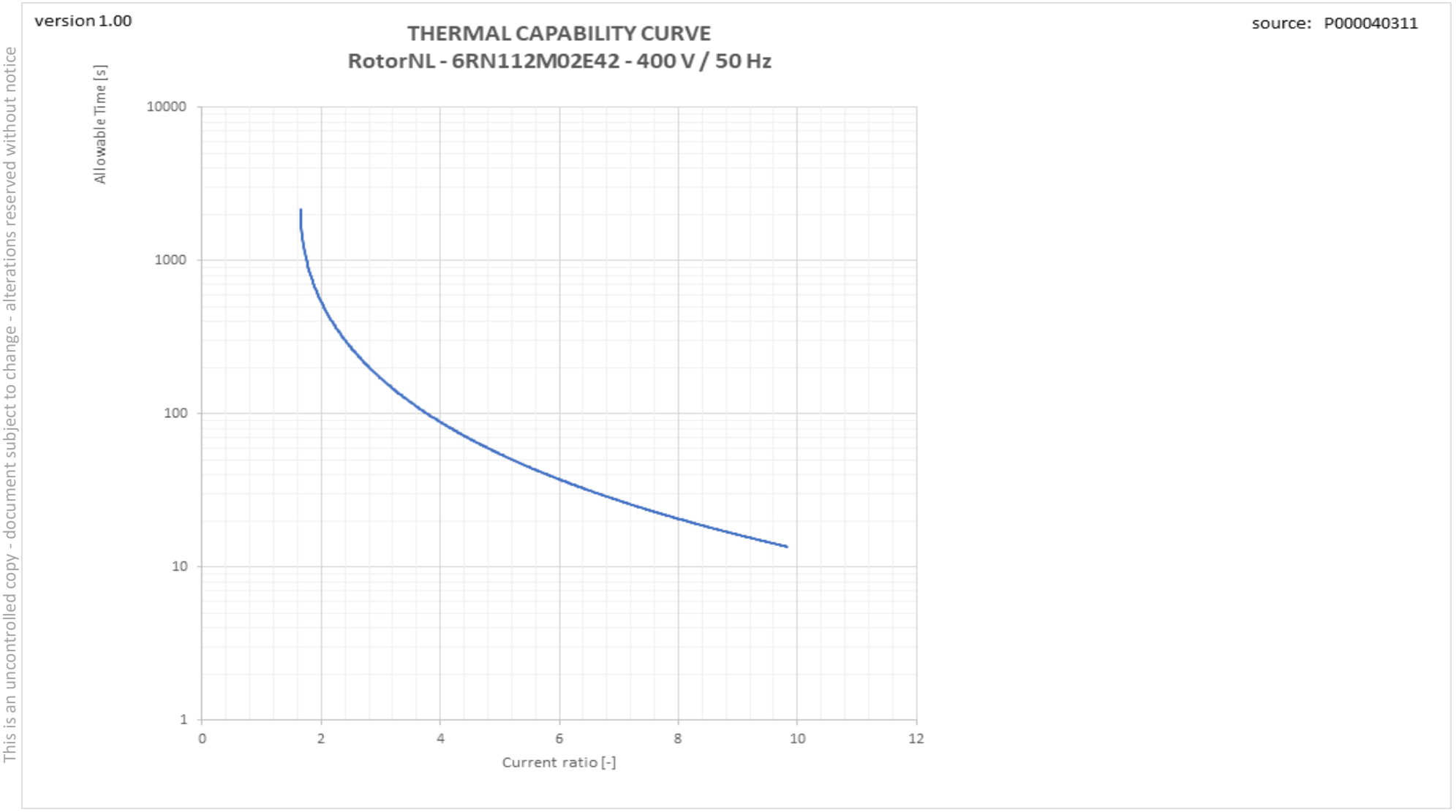
V2.07

6RN112M02E42 2-pole 4,00kW D/Y 400/690V 50Hz S1 IC411 IE4

Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph