

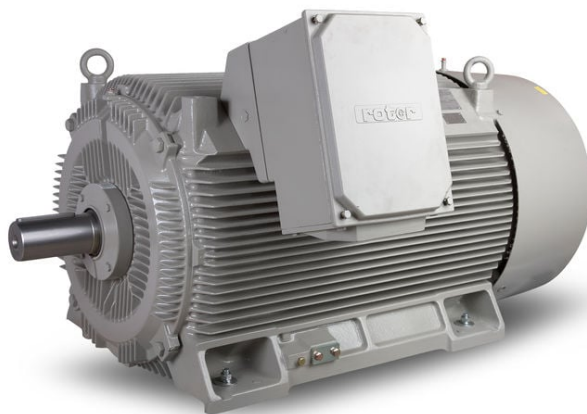
# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN225M06E42U461041

Catalog No: 6RN225M06E42U46@1041

30.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,  
225M Frame B3, IC411



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## Nameplate Specifications

Output HP	40.00 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	57.10 A	Speed	985 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.80
Duty	S1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313/C3	Opp Drive End Bearing Size	6313/C3
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE3

## Technical Specifications

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

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## Datasheet

rotor nl®

rotor B.V.

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Model No. 6-Pole cage motor 6RN 225M 30kW D400V 50Hz IM1041

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 <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>K</sub> /T <sub>N</sub> [pu]
400	D	50	30	40	57,1	985	291	IE4	94,2	0,80	8,13	3,12	3,40
690	Y				33								
460	D	60	36	48,26	58,5	1182	290	IE3	94,4	0,82	7,74	2,91	3,11

Motor type	6RN225M06E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	225M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	30 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	24 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6313/C3
Lubrication method	22gr/13400hrs
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 400V 50Hz	312%	812%	276%	340%	23,3 A
@ D 460V 60Hz	291%	772%		311%	22,4 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.

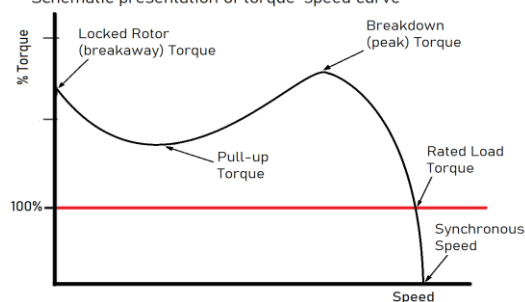
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	290 kg
Gross weight - approx.	300 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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is a  
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certified  
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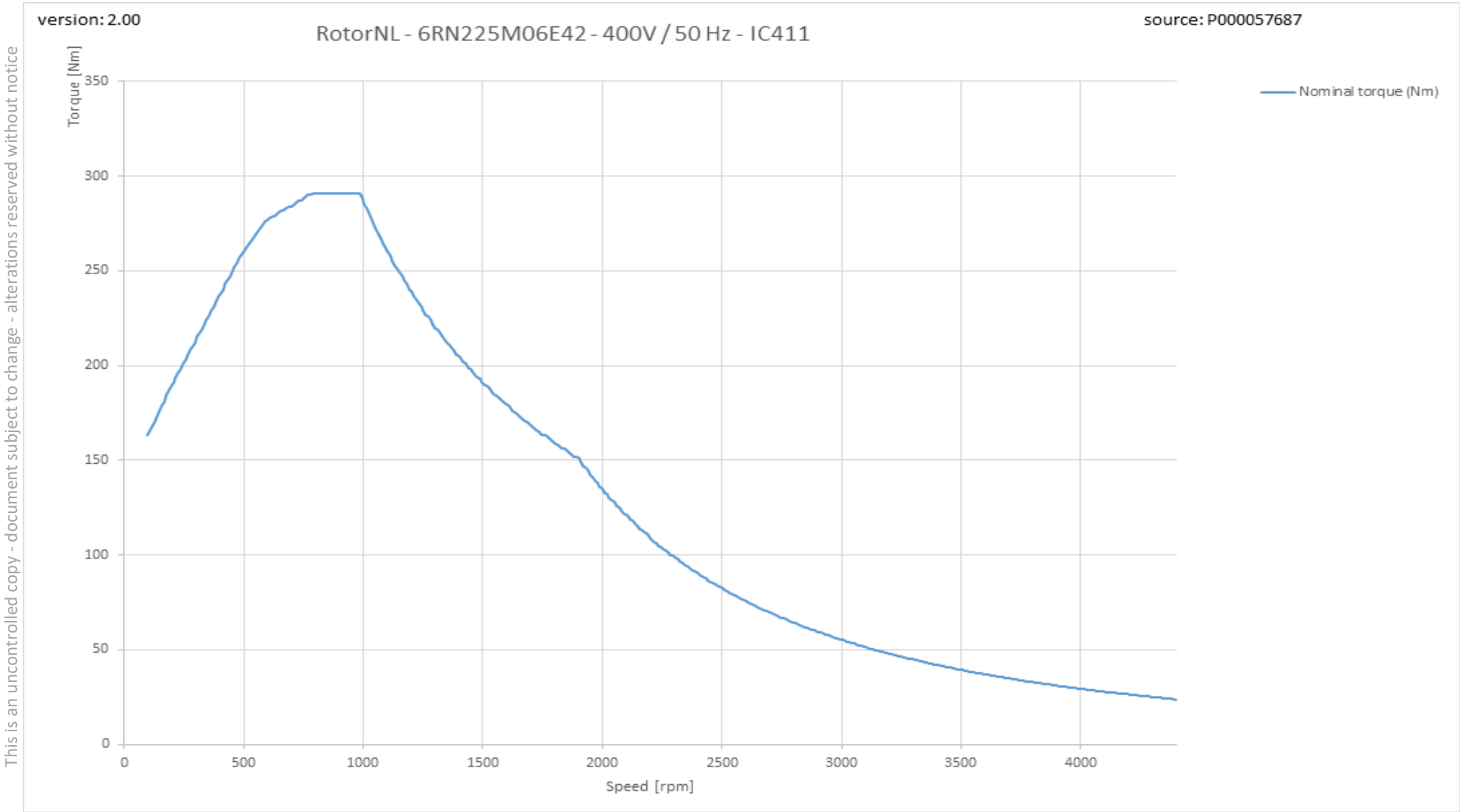
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6RN225M06E42 6-pole 30,00kW D/Y 400/690V 50Hz S1 IC411 IE4

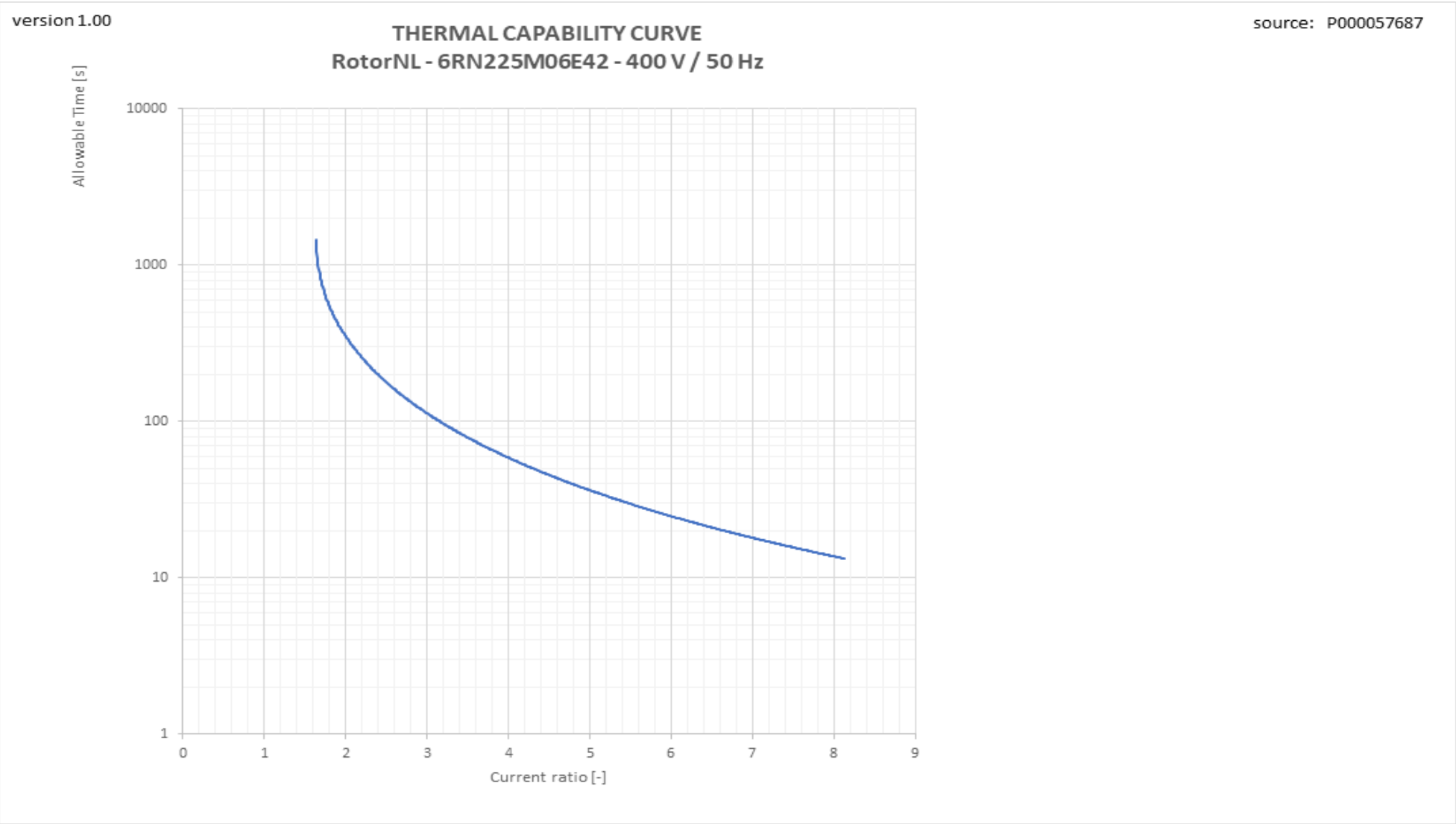


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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