

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN225S04E40U461041

Catalog No: 6RN225S04E40U46@1041

37.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,
225S Frame B3, IC411

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Nameplate Specifications

Output HP	50.00 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	66.50 A	Speed	1485 rpm
Service Factor	1	Phase	3
Efficiency	95.2 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	225S	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	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN225S04E40_1041		

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Datasheet



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Model No. 4-Pole cage motor 6RN 225S 37kW D400V 50Hz IM1041

U (V)	Δ / Y Conn	f [Hz]	P		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]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	37	49,6	68	1485	238	IE4	95,2	95,5	50,4	0,84	0,80	0,71	8,60	3,20	3,22
690	Y		39,2														
460	D	60	42,5	56,97	67	1782	227	IE4	95,5	95,7	95,4	0,85	0,81	0,72	8,72	3,12	3,11

Motor type	6RN225S04E40
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	225S
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	37 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	43 K
Temperature rise surface	42 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6313/C3
Lubrication method	22gr/10200hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,1298 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	320%	841%	278%	322%	25 A
@ D 460V 60Hz	312%	855%	266%	311%	23,4 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.

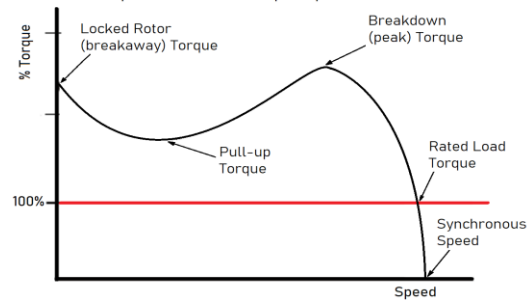
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	340 kg
Gross weight - approx.	350 kg
Motor inertia	0,5200 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	69 dB(A)

Direction of rotation **cw / ccw**

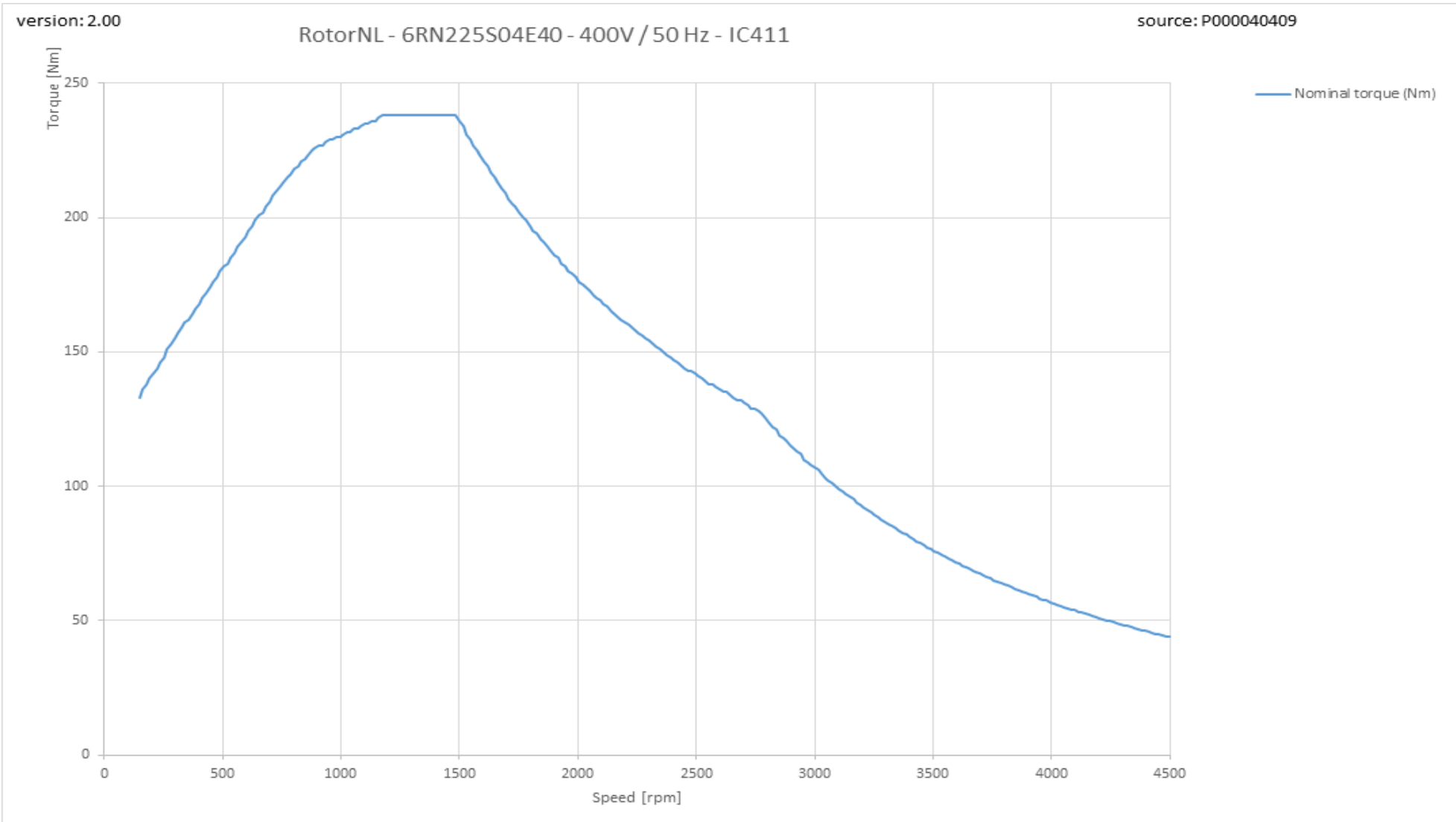
Schematic presentation of torque-speed curve



6RN225S04E40 4-pole 37,00kW D/Y 400/690V 50Hz S1 IC411 IE4



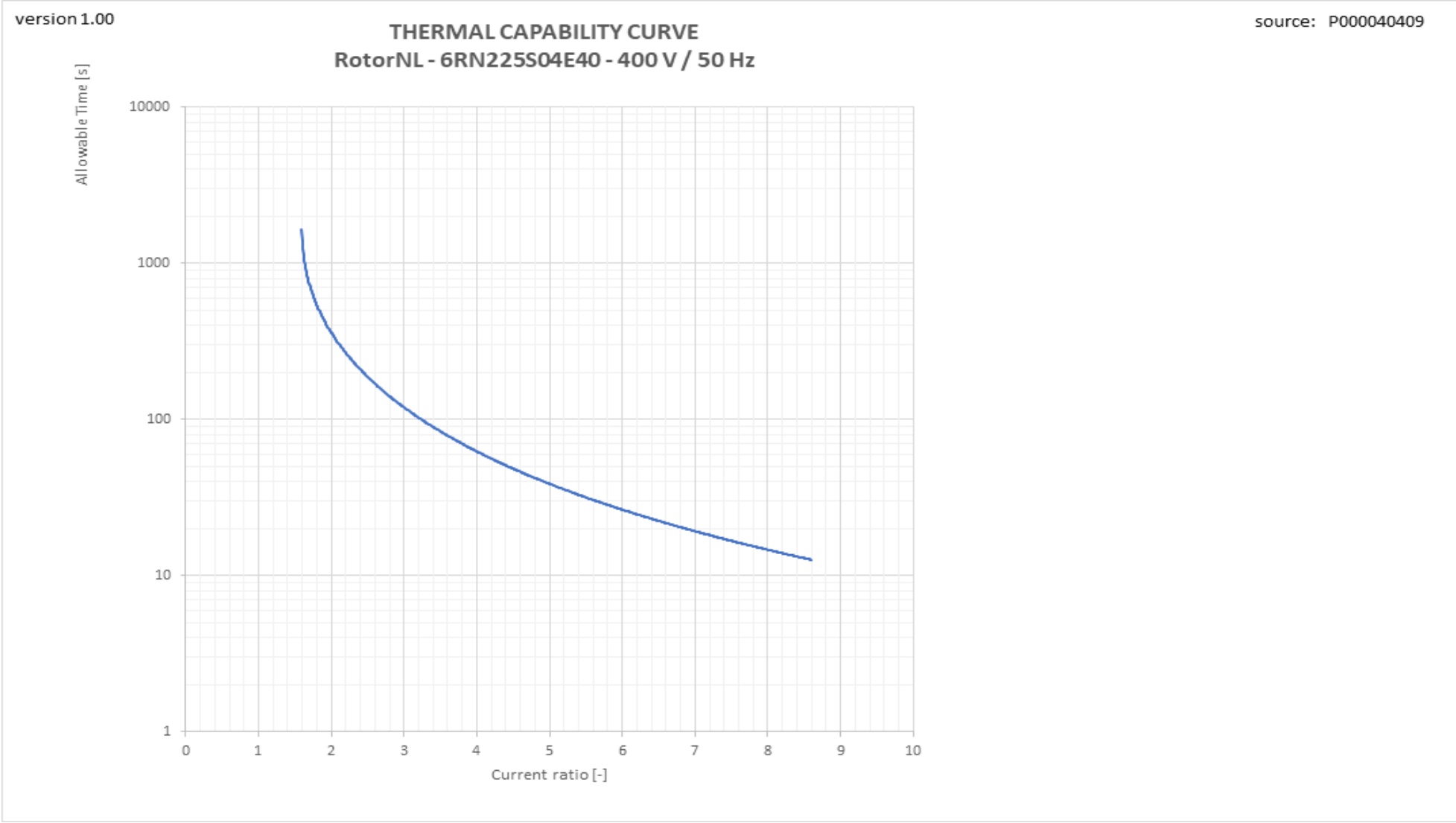
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

