

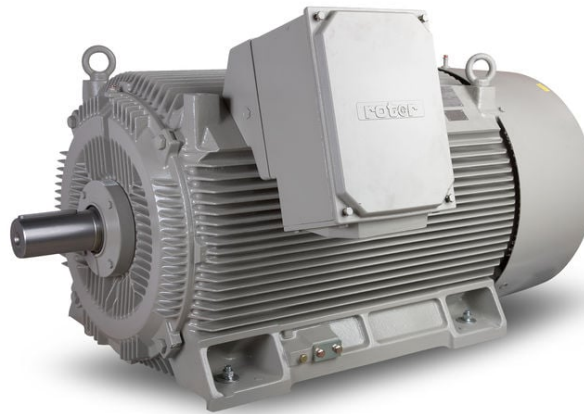
PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN225M04E32U46B1042

Catalog No: 6RN225M04E32U46B@1042

45.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,
225M Frame B3, IC411



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Nameplate Specifications

Output HP	60.00 Hp	Output KW	45.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	81.20 A	Speed	1478 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.85
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	4	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	60 mm	Shaft Extension	140 mm
Outline Drawing	6RN225M04E32_1041		

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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. 4-Pole cage motor 6RN 225M 45kW D400V 50Hz IM1042

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 _K /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	45	60	81,2	1478	290	IE3	93,8	94,5	94,6	0,85	0,82	0,74	6,57	2,55	2,59
690	Y				46,9												
460	D	60	52	69,71	80,6	1778	279	IE2	94,4	94,9	94,9	0,86	0,83	0,76	6,67	2,47	2,51

Motor type	6RN225M04E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	225M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	45 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	66 K
Temperature rise surface	39 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

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

Phase resistance at 20°C	0,1344 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	255%	657%	224%	259%	26,8 A
@ D 460V 60Hz	247%	667%	215%	251%	25 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.

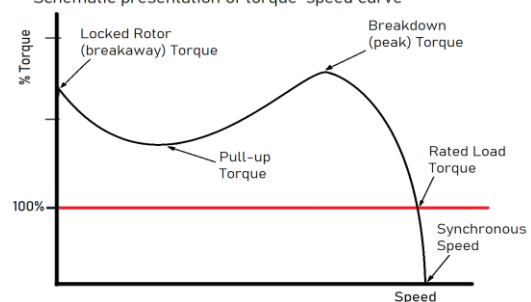
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM1042
Cooling method	IC411
Motor weight - approx.	330 kg
Gross weight - approx.	340 kg
Motor inertia	0,4700 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	57 dB(A)

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



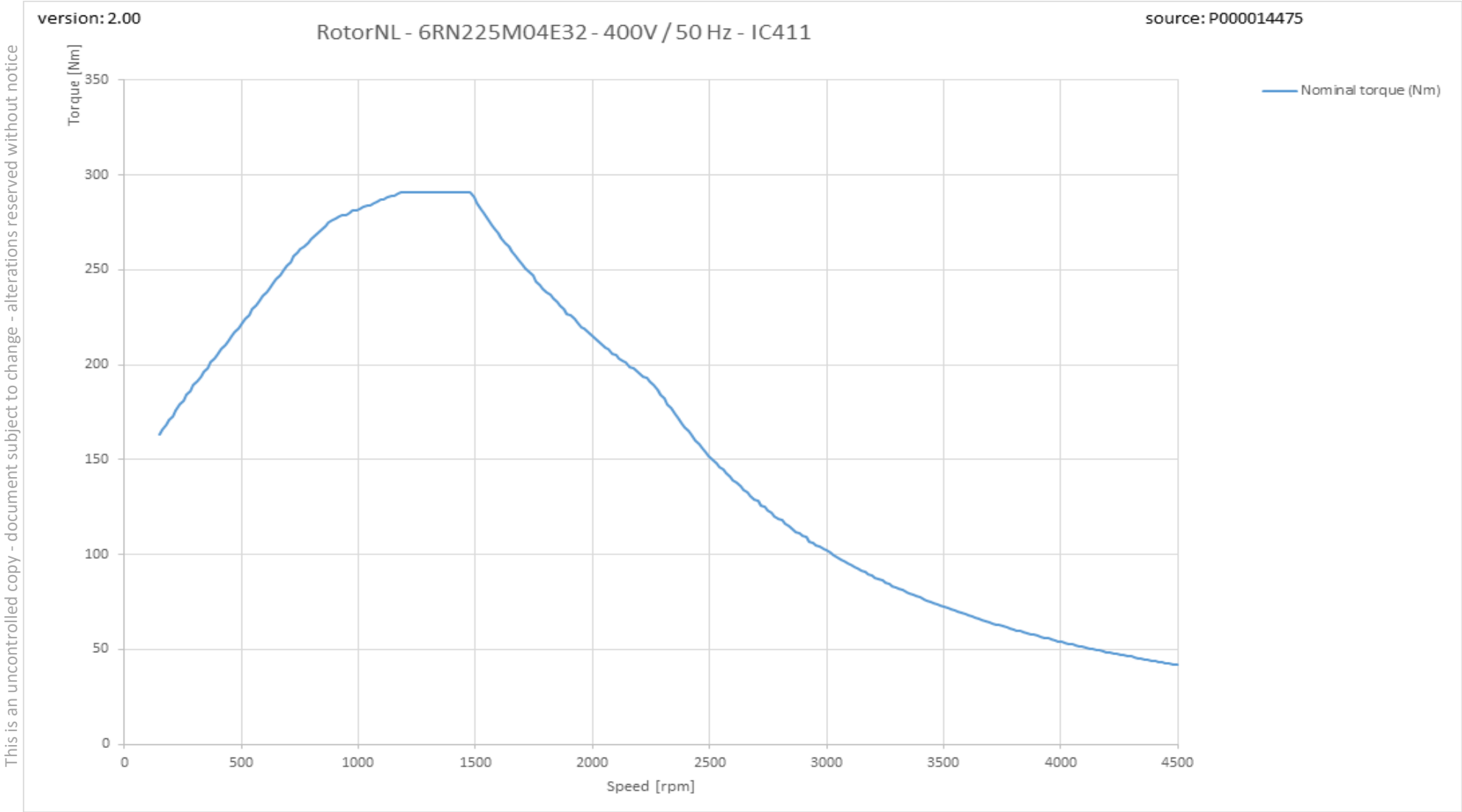
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6RN225M04E32 4-pole 45,00kW D/Y 400/690V 50Hz S1 IC411 IE3

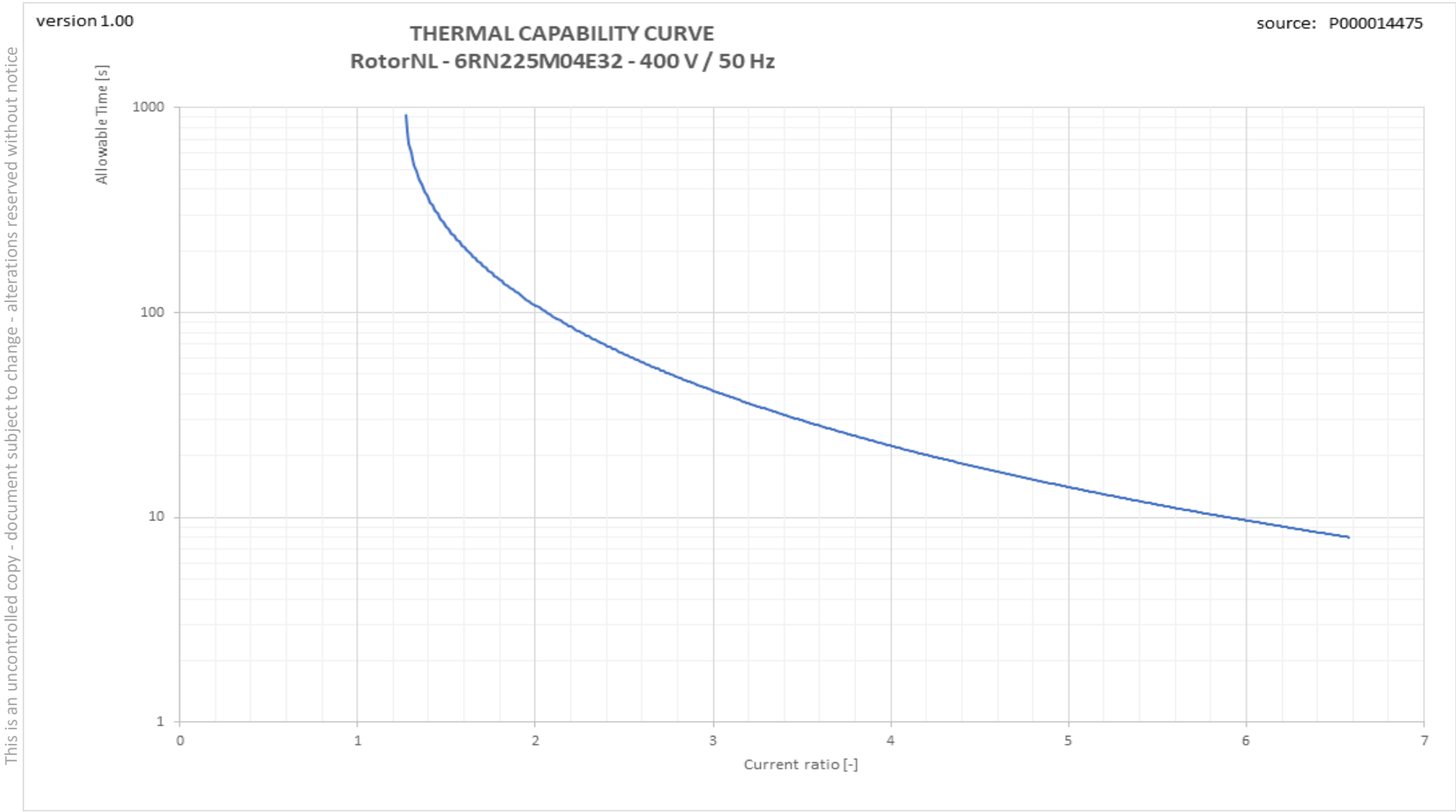


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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Tn graph

