

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN160L04E44U46B1081-Uni

Catalog No: 6RN160L04E44U46B@1081-Uni

15.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,
160L Frame B3, IC411

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Nameplate Specifications

Output HP	20.00 Hp	Output KW	15.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	29.15 A	Speed	1480 rpm
Service Factor	1	Phase	3
Efficiency	93.9 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6309-2Z/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	4	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN160L04E44_1041		

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Datasheet



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Model No. 4-Pole cage motor 6RN 160L 15kW D400V 50Hz IM1081

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 _K /T _N [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	15	20	29,1	1480	96,7	IE4	93,8	93,9	93,2	0,79	0,73	0,61	9,33	3,69	4,34
690	Y		16,7														
460	D	60	17,3	23,19	28,5	1780	92,8	IE4	94,3	94,4	93,8	0,81	0,76	0,65	9,47	3,38	4,17

Motor type	6RN160L04E44
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	15 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	41 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

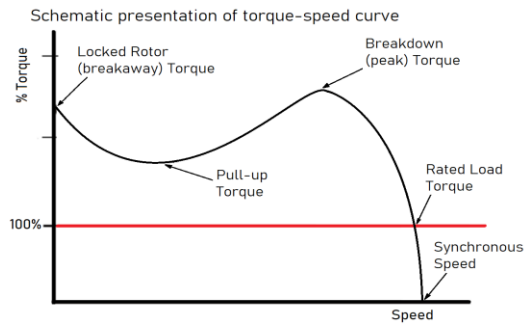
Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	142 kg
Gross weight - approx.	146 kg
Motor inertia	0,1100 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	63 dB(A)

Rotor type	Cage motor
Bearing type	6309-2Z/C3WT - 6309-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	0,3807 Ohm
Country of origin	CZ

	Locked rotor Torque [nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	369%	914%	300%	434%	15 A
@ D 460V 60Hz	338%	912%	296%	417%	13 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



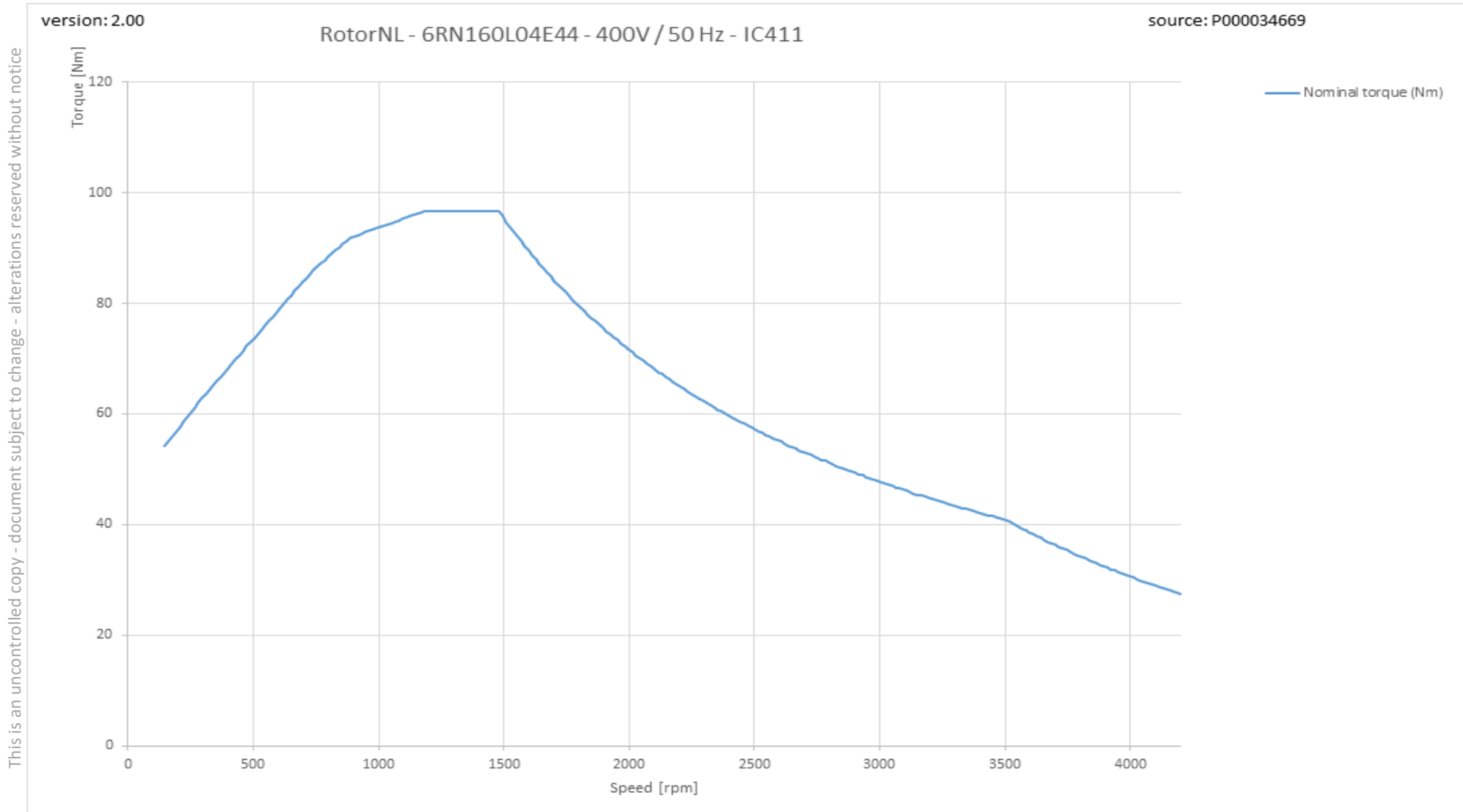
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6RN160L04E44 4-pole 15,00kW D/Y 400/690V 50Hz S1 IC411 IE4



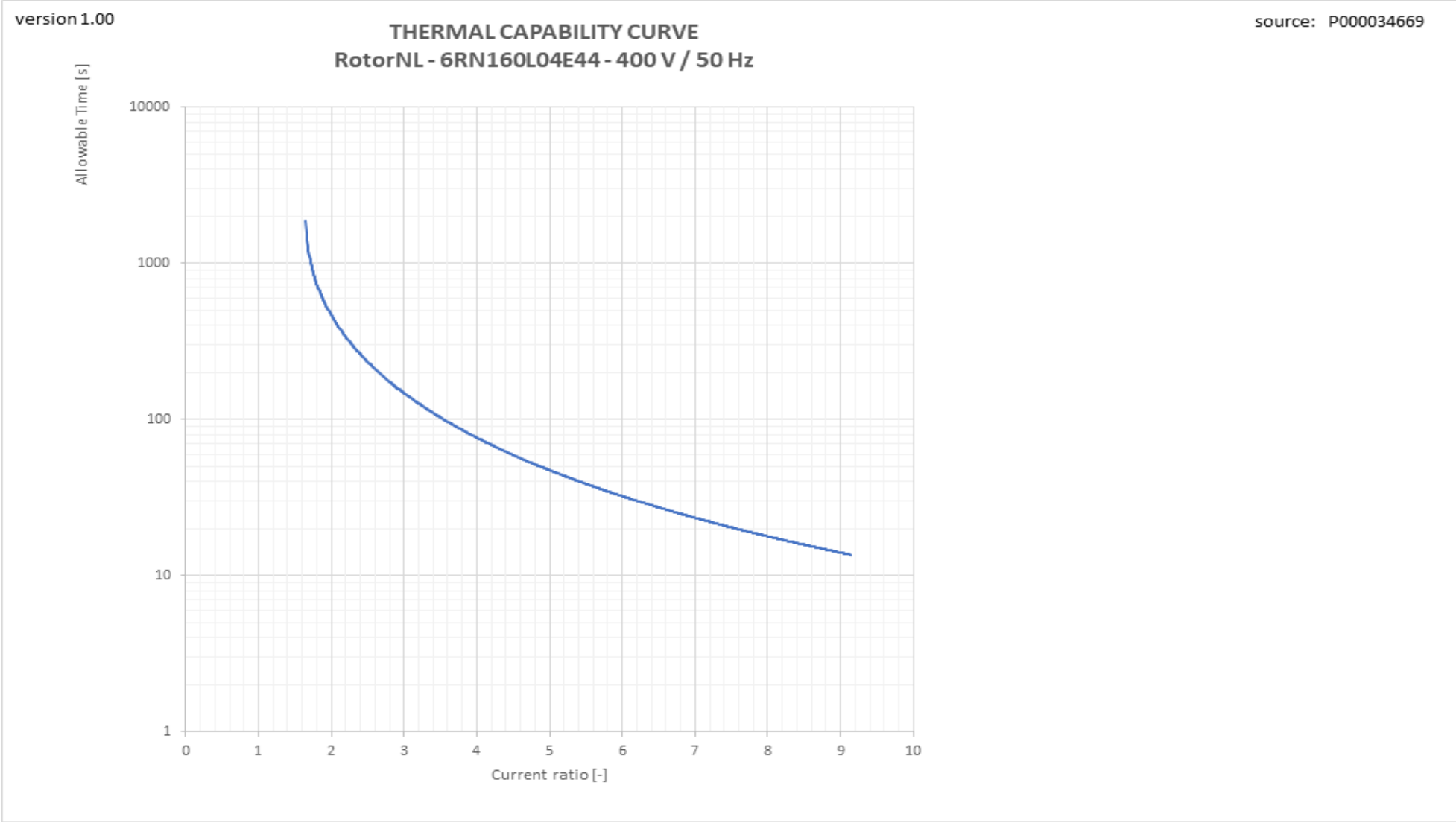
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

