

# PRODUCT INFORMATION PACKET



Model No: 6RN160L04E44U46B2081

Catalog No: 6RN160L04E44U46B@2081

15.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,  
160L Frame B35, 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	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN160L04E44_2041		

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## Datasheet


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Model No. 4-Pole cage motor 6RN 160L 15kW D400V 50Hz IM2081-FF300

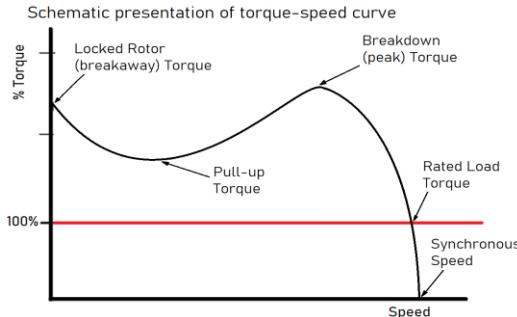
U (V)	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __ load			I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>R</sub> /T <sub>N</sub> [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	0,79	0,73	0,61
400	D	50	15	20	29,1	1480	96,7	IE4	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	Degree of protection	IP55
Enclosure	Totally Enclosed Fan Cooling	Mounting type	IM2081-FF300
Frame Material	Cast iron	Cooling method	IC411
Frame size	160L	Motor weight - approx.	142 kg
Duty	S1	Gross weight - approx.	146 kg
Voltage	400 V	Motor inertia	0,1100 kgm <sup>2</sup>
Frequency	50 Hz	Vibration level	according IEC60034-14
Power output	15 kW	Noise level (pressure) acc 60034-9	63 dB(A)
Insulation class	F		
Ambient temperature	-20 till 40 °C		
Temperature rise	temp.rise acc. B (80K)		
Temperature rise winding	41 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	6309-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	0,3807 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	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



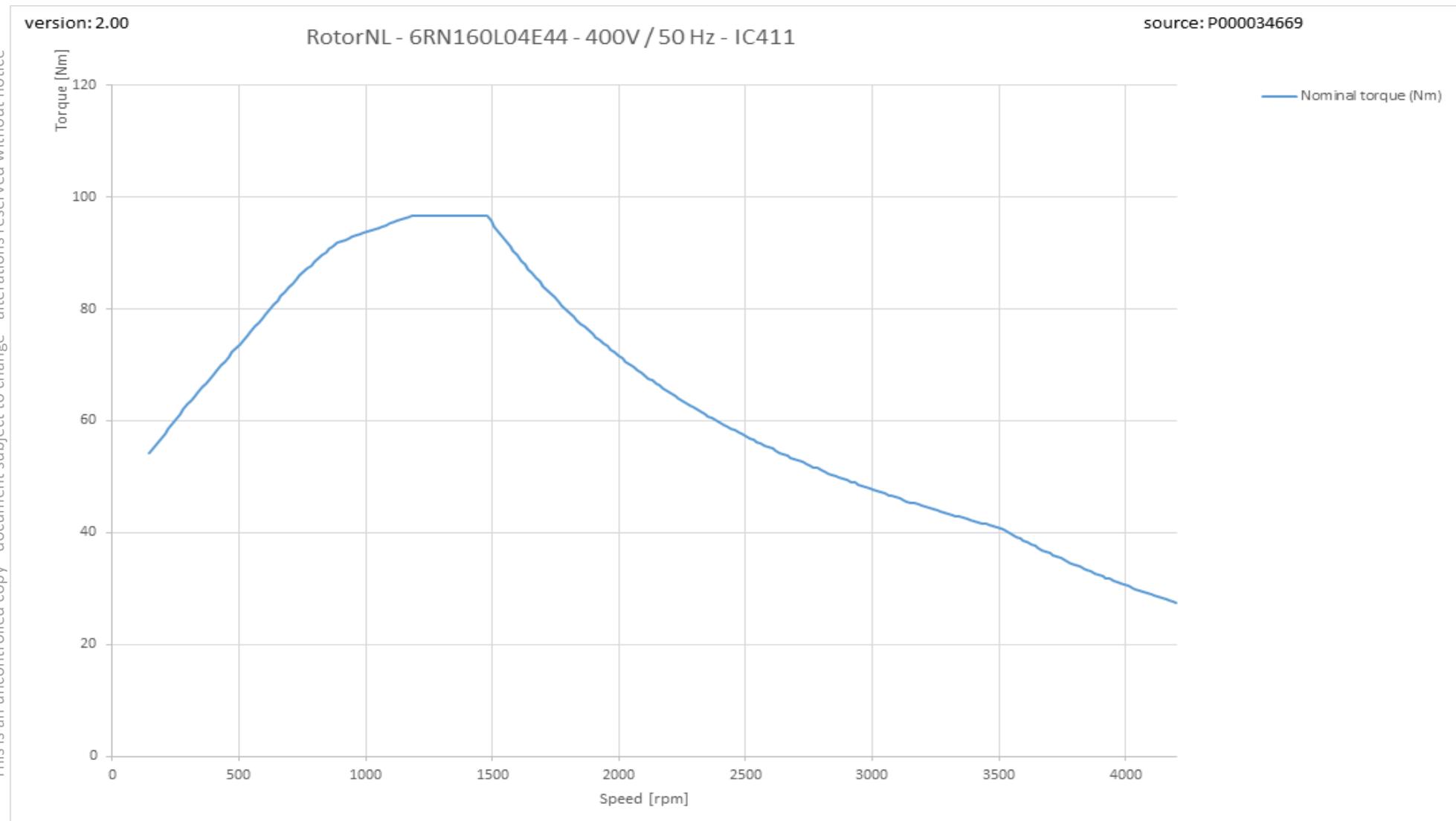
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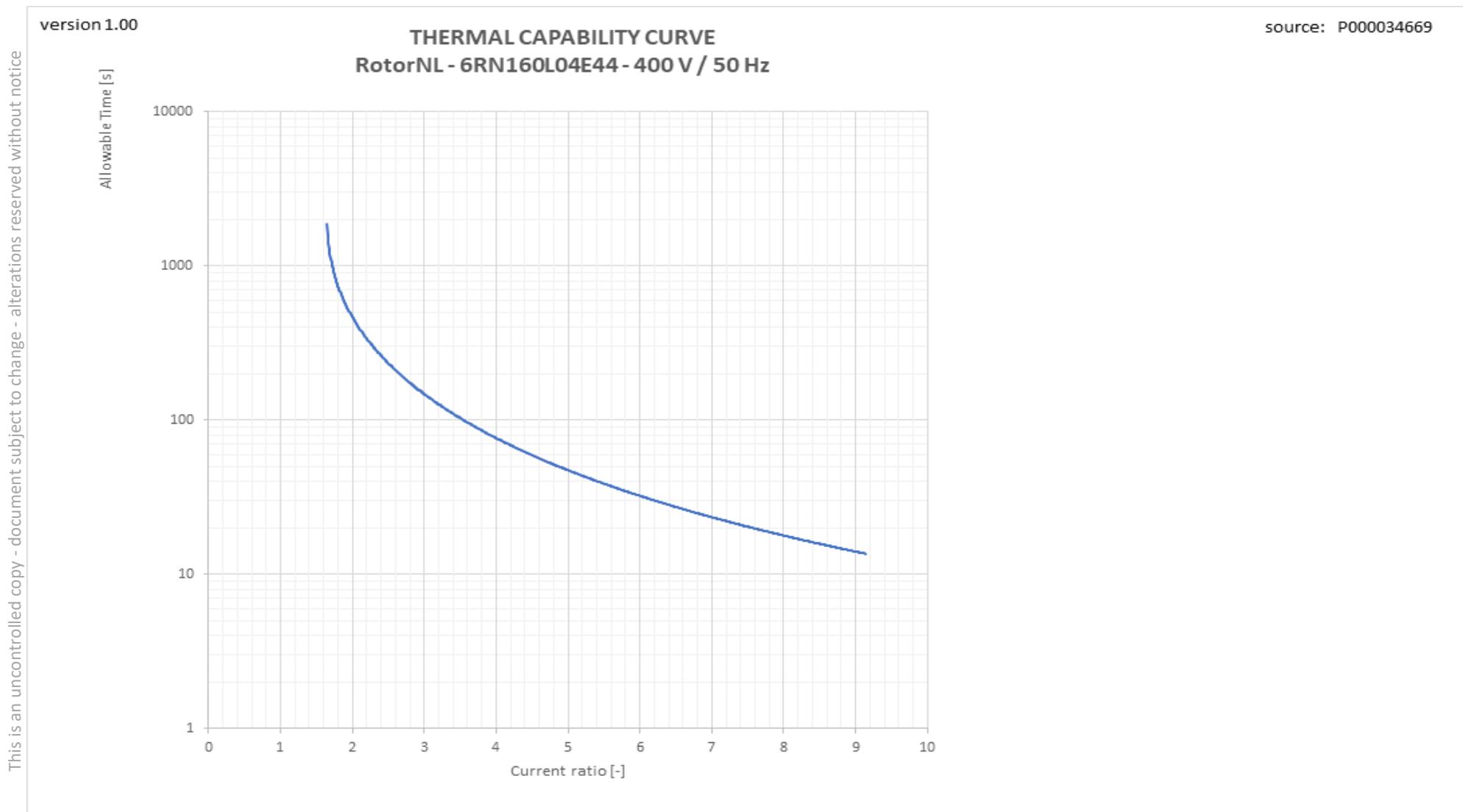
6RN160L04E44 4-pole 15,000kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



Therm\_VSD graph



Tn graph

