

# PRODUCT INFORMATION PACKET



Model No: 6RN160L06E34U46B2081-Uni

Catalog No: 6RN160L06E34U46B@2081-Uni

11.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,  
160L Frame B35, IC411

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## Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	22.27 A	Speed	975 rpm
Service Factor	1	Phase	3
Efficiency	90.3 %	Power Factor	0.80
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	IE3

## Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	42 mm	Shaft Extension	110 mm
Outline Drawing	6RN160L06E34_1041		

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# Datasheet

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Model No. 6-Pole cage motor 6RN 160L 11kW D400V 50Hz IM2081-FF300

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	11	15	22,3	975	108	IE3	89,8	0,80	6,60	1,80	3,00
690	Y				12,9								
460	D	60	12,6	16,89	21,5	1175	102	IE2	90,2	0,81	6,60	1,65	2,94

Motor type	6RN160L06E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	11 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	48 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6309-2Z/C3WT - 6309-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	0,6917 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	180%	650%	160%	300%	10 A
@ D 460V 60Hz	165%	655%	150%	294%	9,4 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.

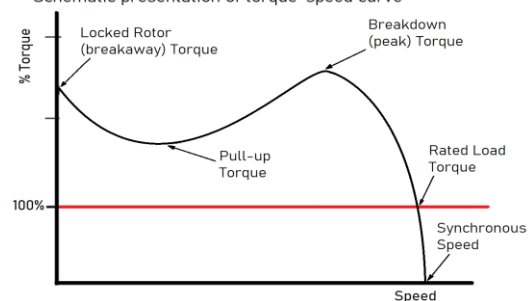
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM2081-FF300
Cooling method	IC411
Motor weight - approx.	141 kg
Gross weight - approx.	145 kg
Motor inertia	0,1200 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	67 dB(A)

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



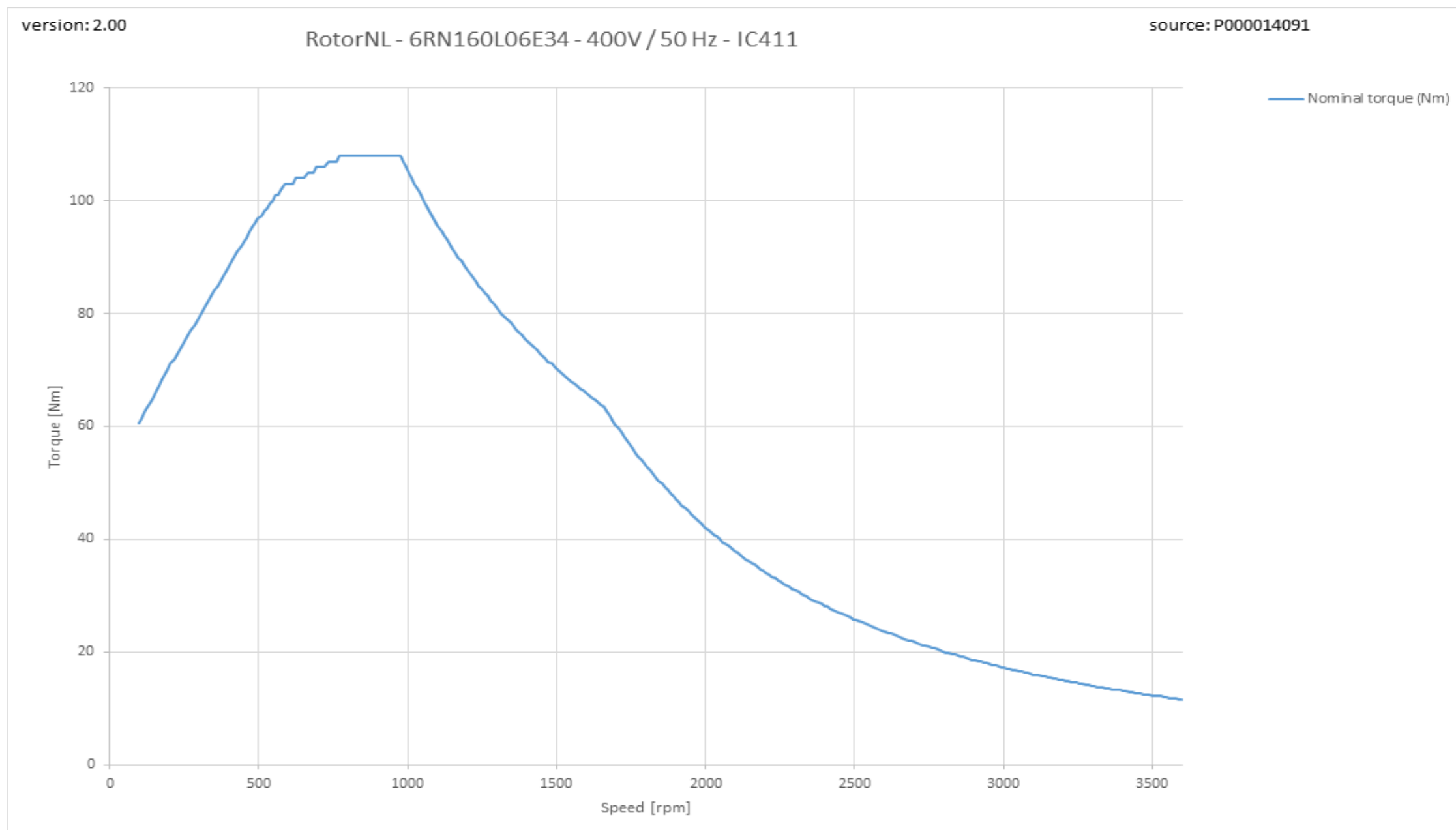
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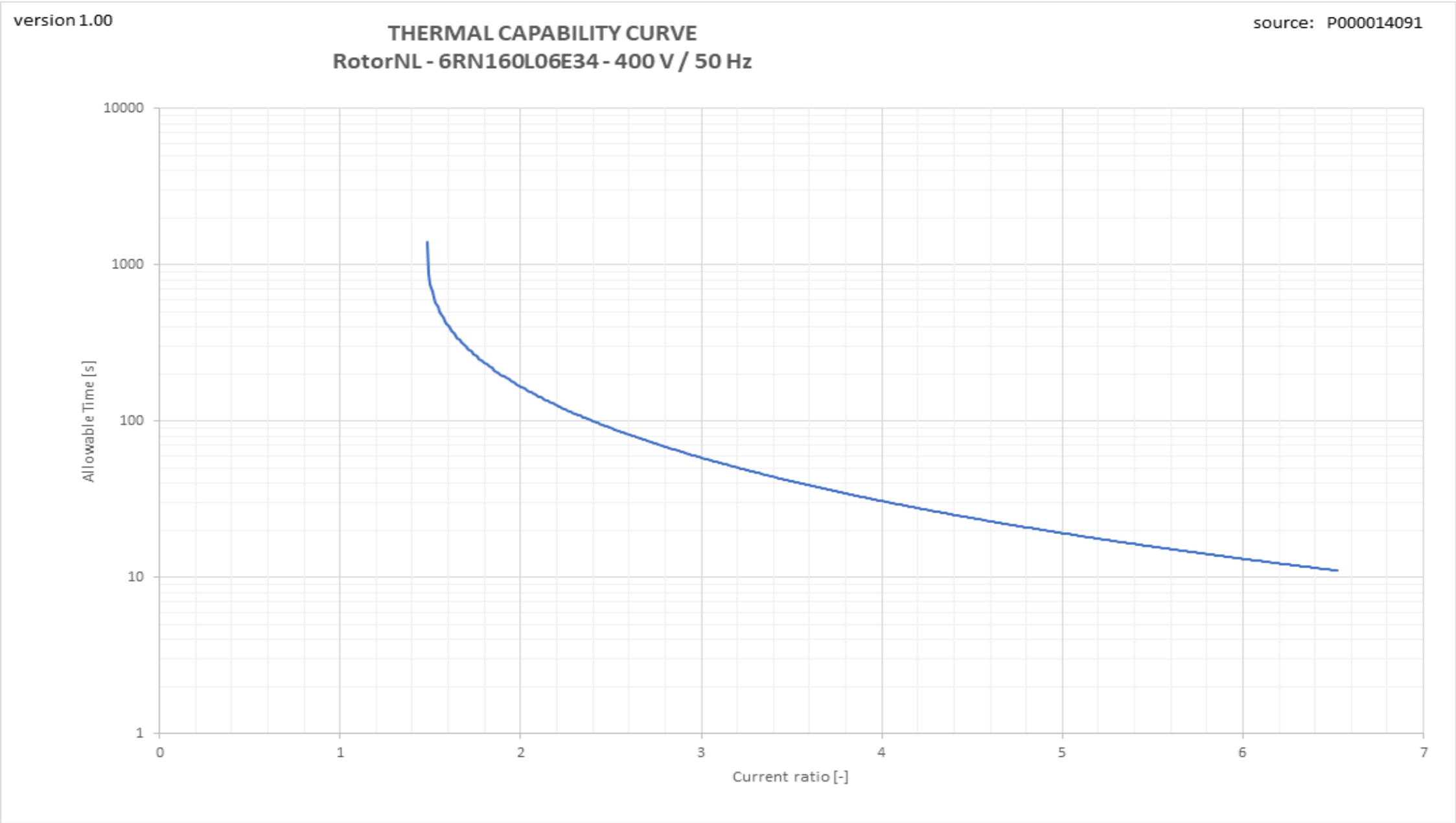
6RN160L06E34 6-pole 11,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm\_VSD graph



Tn graph

