

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN200L06E34U46B2021

Catalog No: 6RN200L06E34U46B@2021

18.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
200L Frame B35, IC411



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Nameplate Specifications

Output HP	25.00 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	36.90 A	Speed	978 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6312-2Z/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	55 mm	Shaft Extension	110 mm
Outline Drawing	6RN200L06E34_2041		

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Datasheet



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Model No. 6-Pole cage motor 6RN 200L 18,5kW D400V 50Hz IM2021-FF350

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	18,5	24,8	36,9	978	181	IE3	92,2	93,0	92,9	0,79	0,74	0,63	5,70	2,50	2,60
690	Y				21,3												
460	D	60	22	30	37,5	1175	178	IE2	92,4	93,2	93,1	0,80	0,76	0,65	5,76	2,28	2,40

Motor type	6RN200L06E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	200L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	18,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	52 K
Temperature rise surface	26 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6312-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	0,3853 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	250%	571%	210%	260%	16,1 A
@ D 460V 60Hz	228%	576%	190%	240%	14,8 A

NOTE

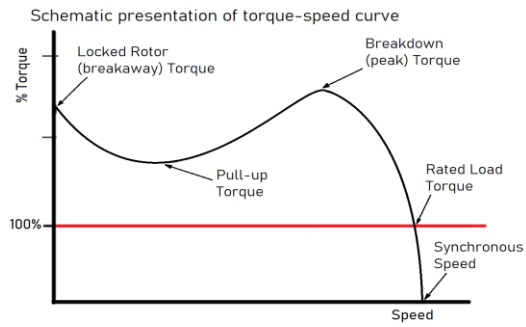
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM2021-FF350
Cooling method	IC411
Motor weight - approx.	229 kg
Gross weight - approx.	236 kg
Motor inertia	0,2800 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	57 dB(A)

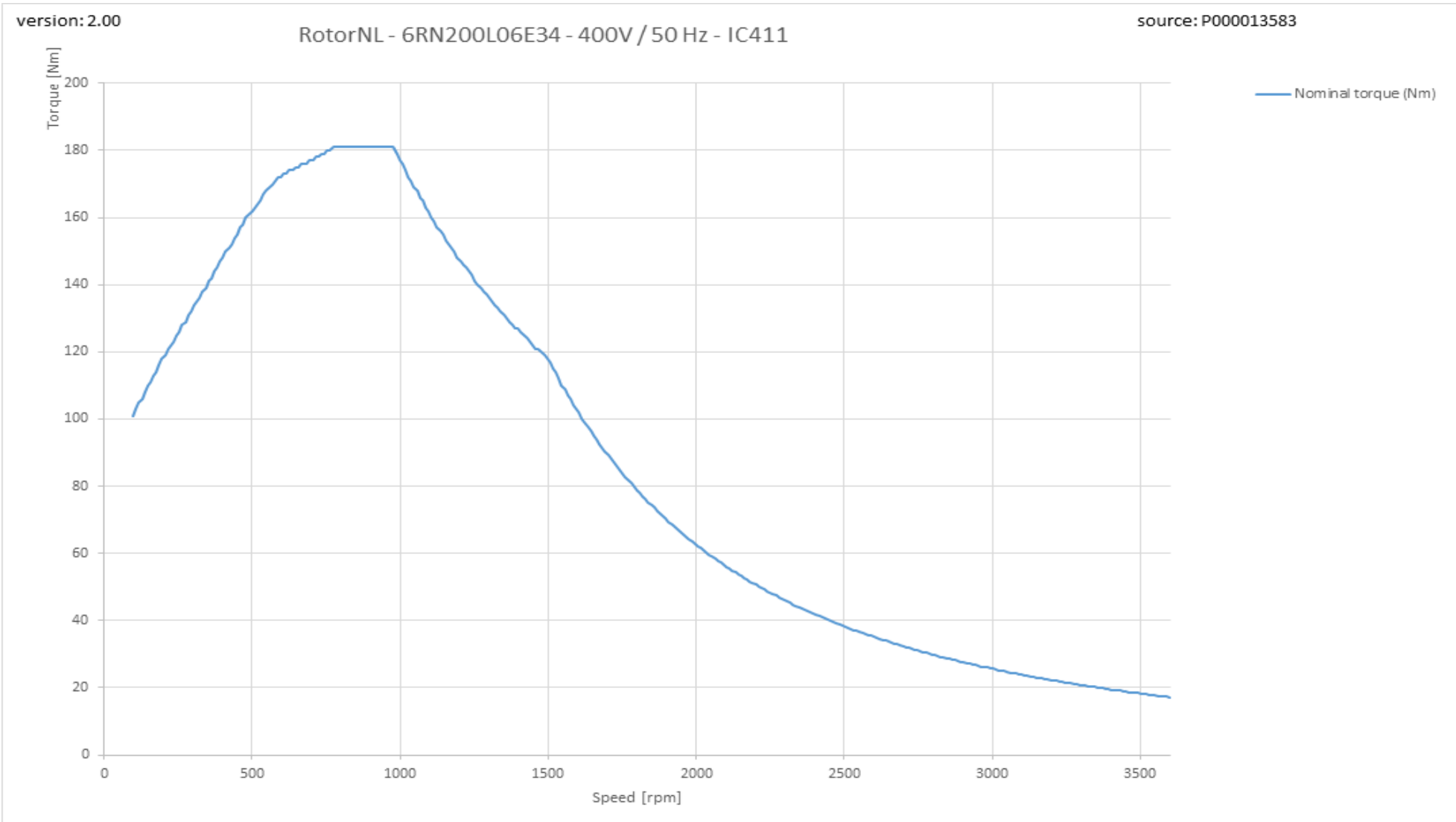
Direction of rotation	cw / ccw
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6RN200L06E34 6-pole 18,5kW D/Y 400/690V 50Hz S1 IC411 IE3

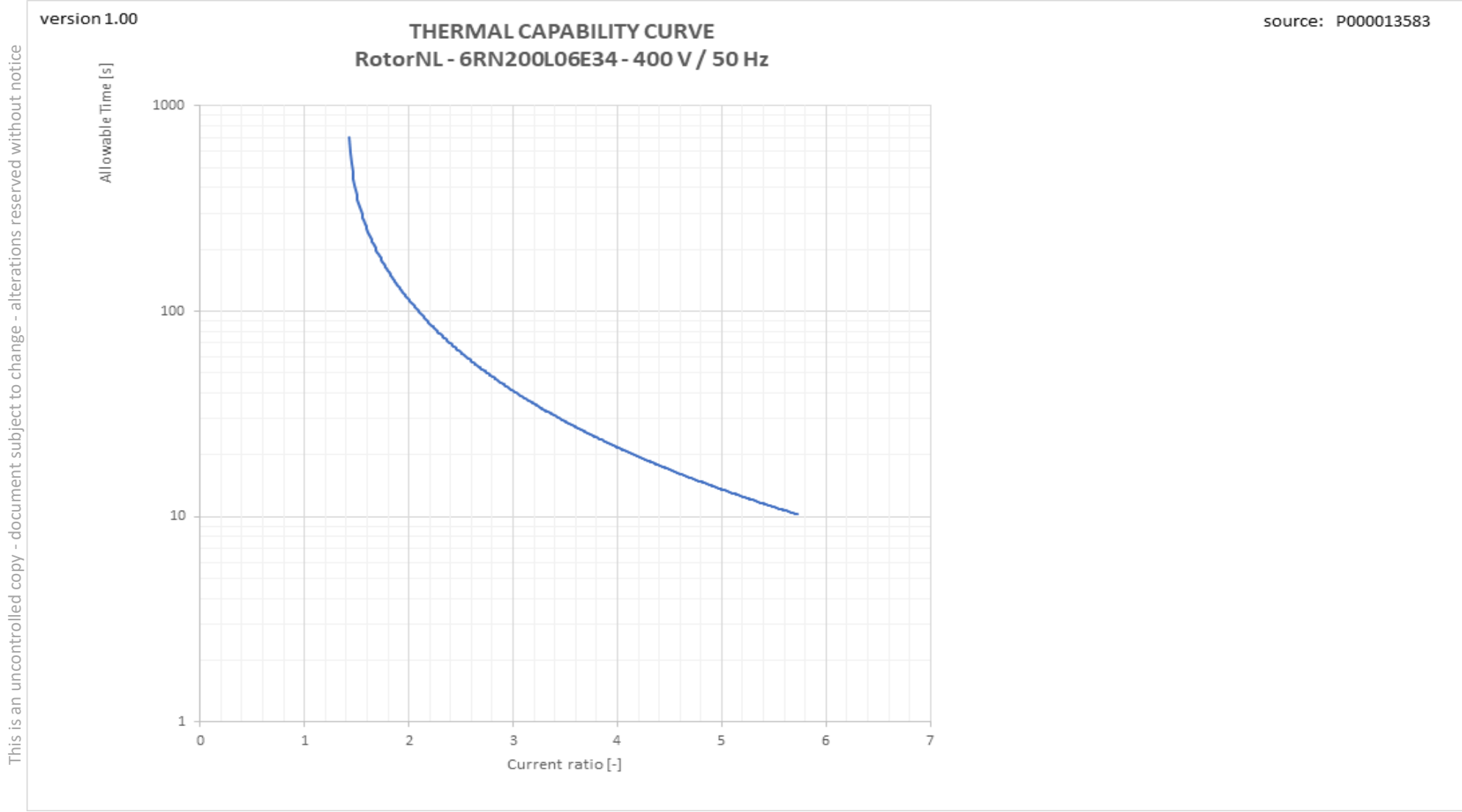


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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Tn graph

