

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN100L06E34U241081

Catalog No: 6RN100L06E34U24@1081

1.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,
100L Frame B3, IC411



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Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	6.32 A	Speed	970 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.73
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6306-2Z/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	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	28 mm	Shaft Extension	60 mm

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Datasheet



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Model No. 6-Pole cage motor 6RN 100L 1,5kW D230V 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 _R /T _N [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	1,5	2	6,32	970	14,8	IE3	82,5	83,1	81,5	0,73	0,65	0,52	5,09	1,75	2,53
400	Y				3,65												
265	D	60	1,75	2 1/3	6	1170	14,3	IE2	86,5			0,74			5,50	1,90	2,80
460	Y				3,45												

Motor type	6RN100L06E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	100L
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	40 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6306-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	3,9675 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 230V 50Hz	175%	509%	170%	253%	3,74 A
@ D 265V 60Hz	190%	531%		280%	1,96 A

NOTE

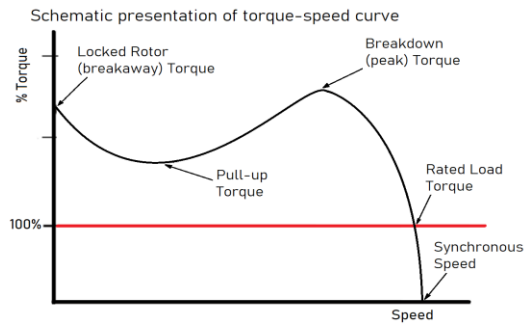
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	36 kg
Gross weight - approx.	37 kg
Motor inertia	0,0140 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	59 dB(A)

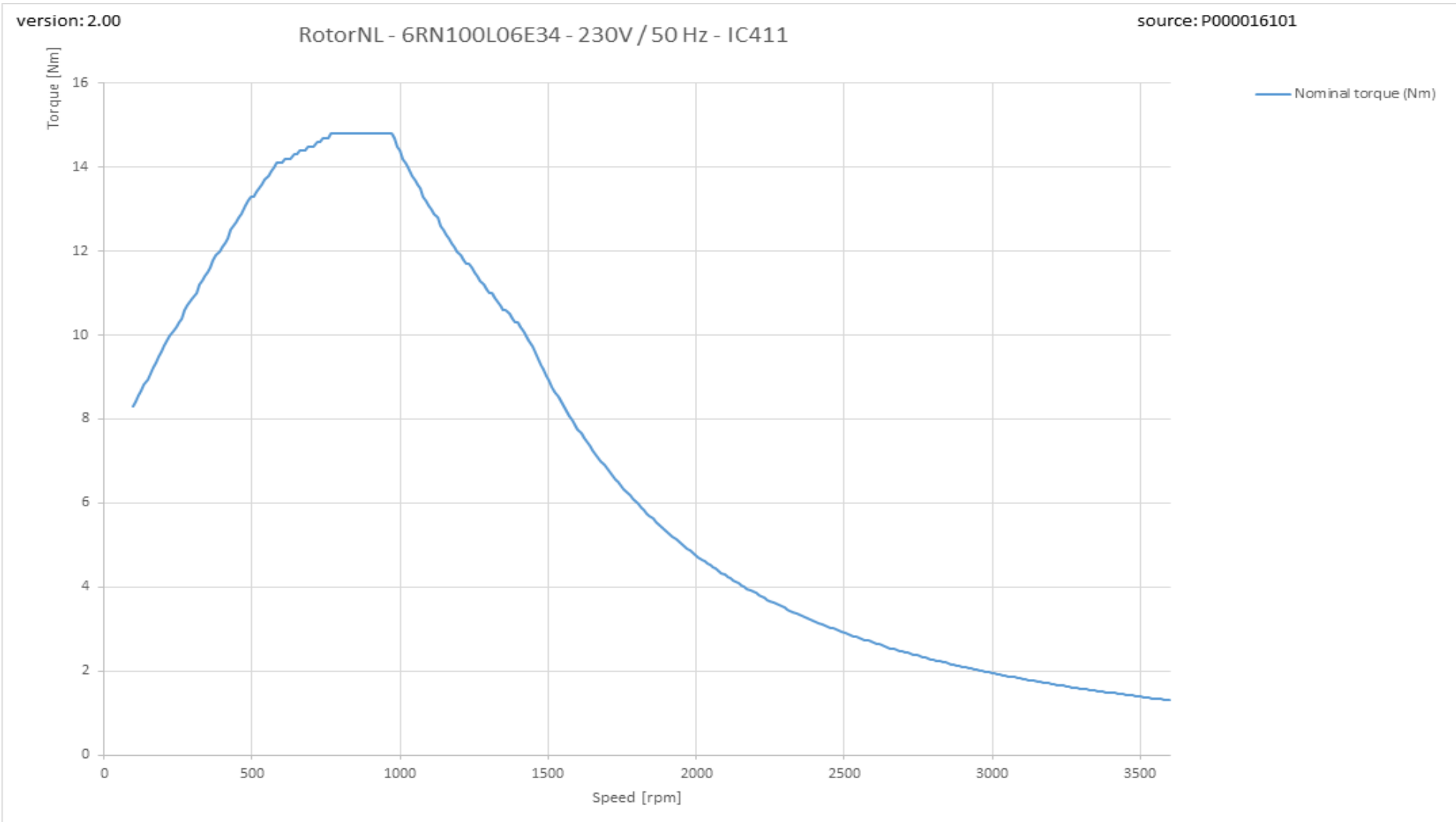
Direction of rotation	cw / ccw
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6RN100L06E34 6-pole 1,5kW D/Y 230/400V 50Hz S1 IC411 IE3

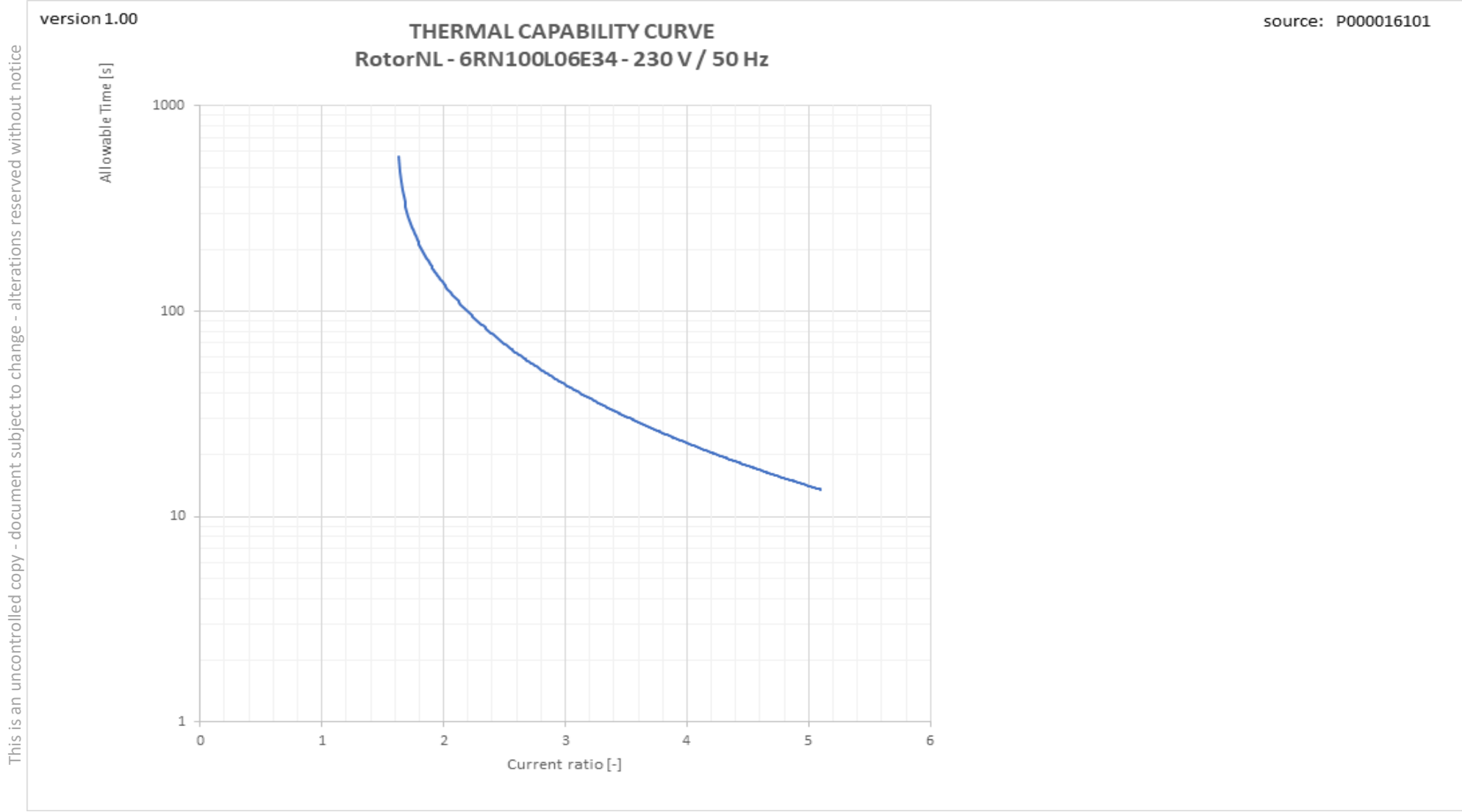


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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Tn graph

