

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN90L04E34U46B3641-B

Catalog No: 6RN90L04E34U46B@3641-B

1.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,
90L Frame B14, IC411



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Nameplate Specifications

Output HP	2.00 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	3.24 A	Speed	1445 rpm
Service Factor	1	Phase	3
Efficiency	85.3 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6004-2Z/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	4	Rotation	Clockwise Shaft End
Mounting	B14	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	24 mm	Shaft Extension	50 mm
Outline Drawing	6RN90L04E34_3641-B		

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Datasheet



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Model No. 4-Pole cage motor 6RN 90L 1,5kW D400V 50Hz IM3641-FT130

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	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]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	1,5	2	3,25	1445	9,92	IE3	85,0			0,79			7,04	2,67	3,64
690	Y				1,88												
460	D	60	1,75	2 1/3	3,2	1745	9,6	IE3	86,4	86,5	85,5	0,80	0,75	0,65	7,41	2,59	3,74

Motor type	6RN90L04E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	90L
Duty	S1
Voltage	400 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

Degree of protection	IP55
Mounting type	IM3641-FT130
Cooling method	IC411
Motor weight - approx.	19 kg
Gross weight - approx.	20 kg
Motor inertia	0,0036 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	56 dB(A)

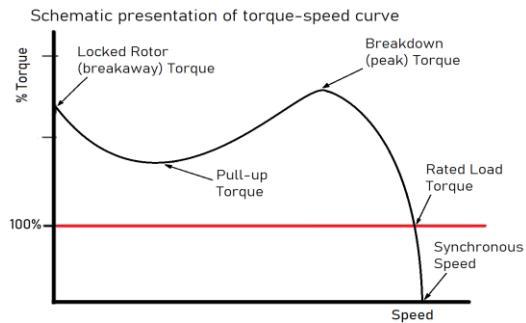
Rotor type	Cage motor
Bearing type	6004-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	11,5500 Ohm
Country of origin	CZ

Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	267%	701%	264%	364%	1,8 A
@ D 460V 60Hz	259%	740%	240%	374%	1,67 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.

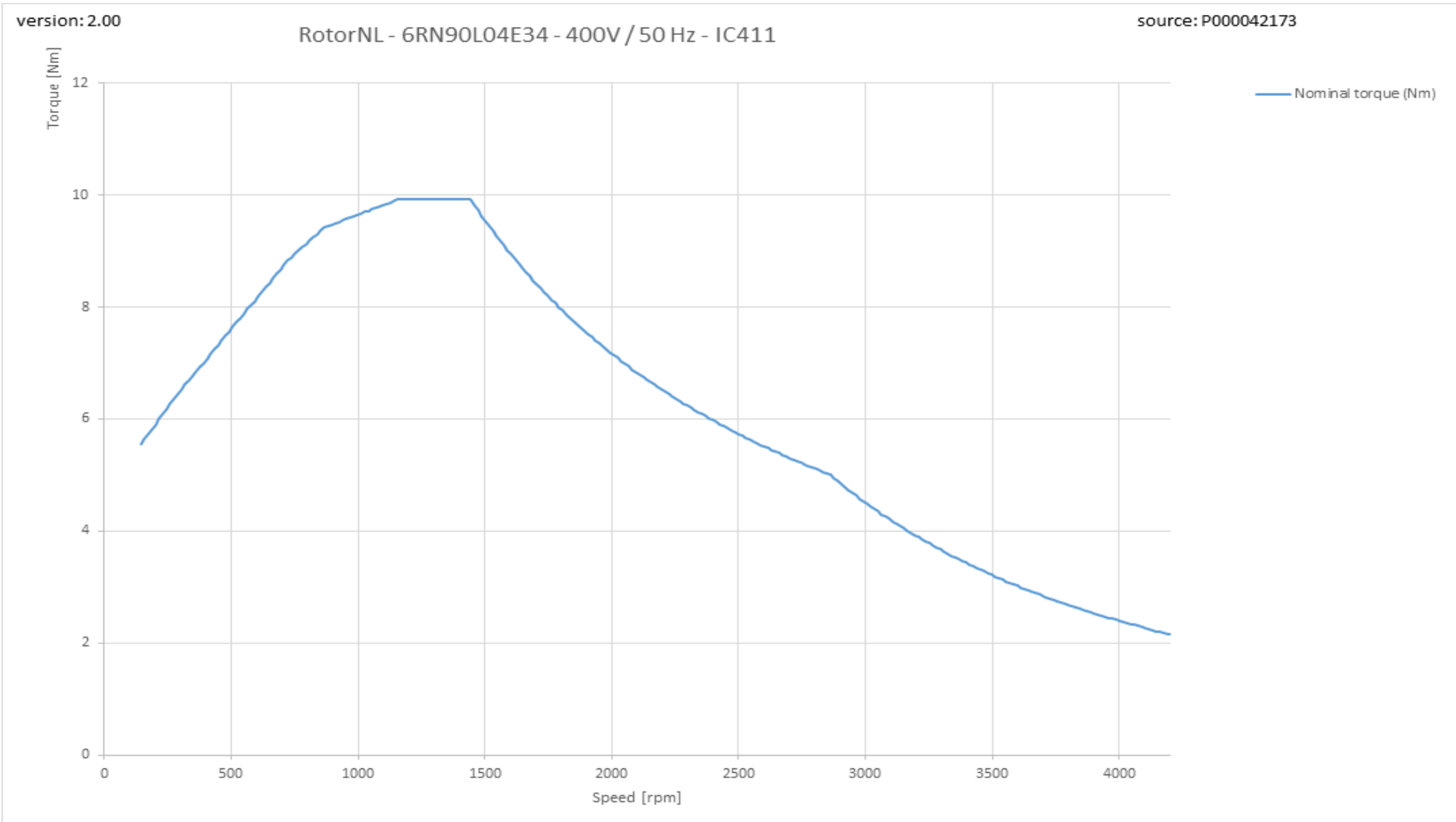
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30



6RN90L04E34 4-pole 1,50kW D/Y 400/690V 50Hz S1 IC411 IE3



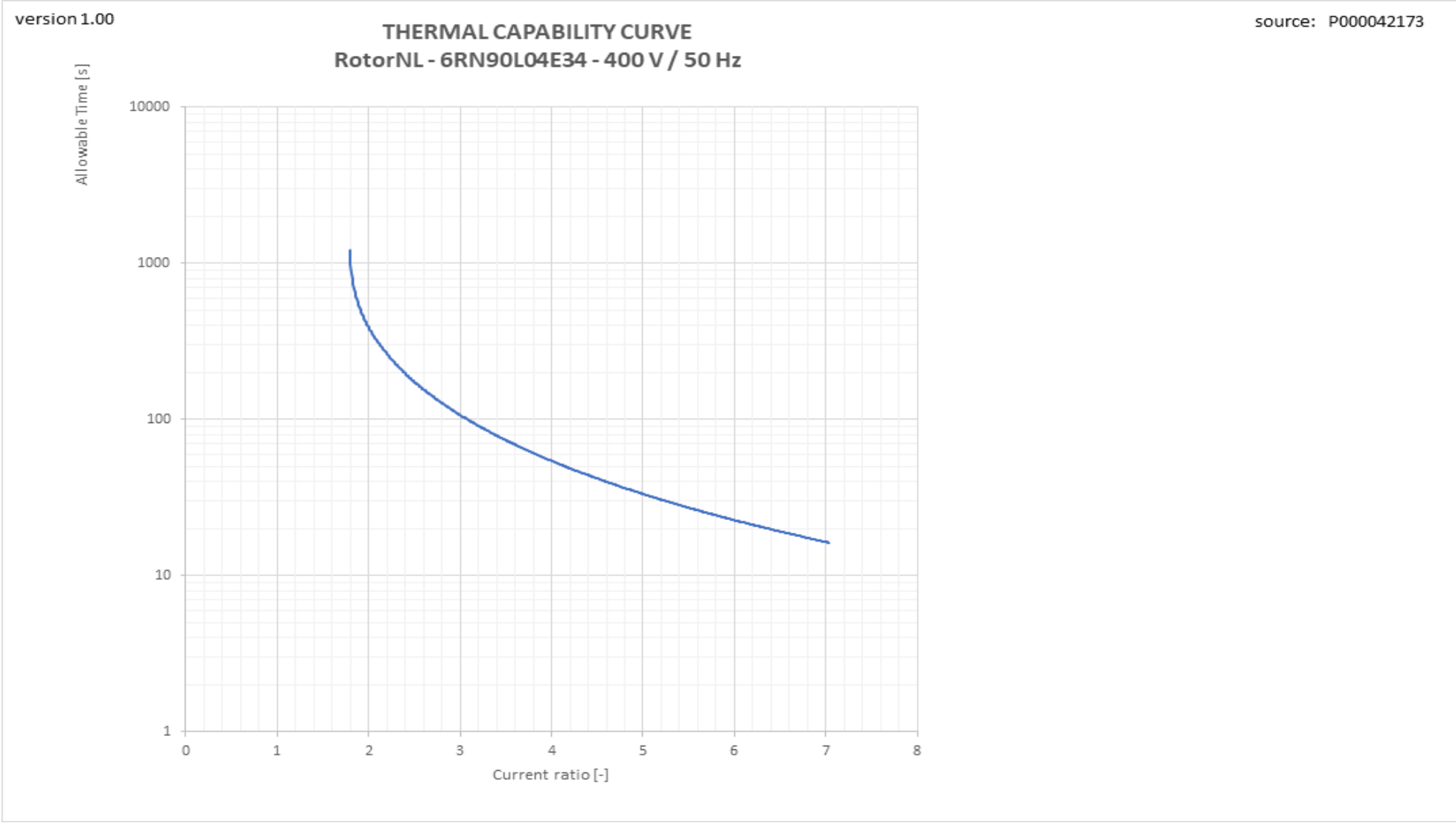
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

