

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN90L02E34U46B3641-A

Catalog No: 6RN90L02E34U46B@3641-A

2.20 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,
90L Frame B14, IC411



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Nameplate Specifications

Output HP	3.00 Hp	Output KW	2.2 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	4.20 A	Speed	2920 rpm
Service Factor	1	Phase	3
Efficiency	85.9 %	Power Factor	0.88
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	2	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	6RN90L02E34_3641-A		

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Datasheet



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Model No. 2-Pole cage motor 6RN 90L 2,2kW D400V 50Hz IM3641-FT115

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	2,2	3	4,2	2920	7,2	IE3	85,9			0,88	0,85	0,78	8,20	2,60	4,00
690	Y				2,4												
460	D	60	2,55	3,418	4,5	3515	7,06	IE3	83,0	86,5	85,5	0,86			8,20	4,40	2,70

Motor type	6RN90L02E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	90L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	2,2 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	38 K
Temperature rise surface	20 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6004-2Z/C3WT

Type of grease	Unirex N3
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Country of origin	CZ
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	260%	857%		400%	1,8 A
@ D 460V 60Hz	440%	764%	270%	270%	1,96 A

NOTE

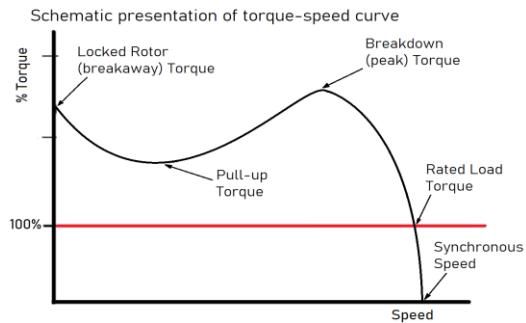
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM3641-FT115
Cooling method	IC411
Motor weight - approx.	25 kg
Gross weight - approx.	26 kg
Motor inertia	0,0021 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	65 dB(A)

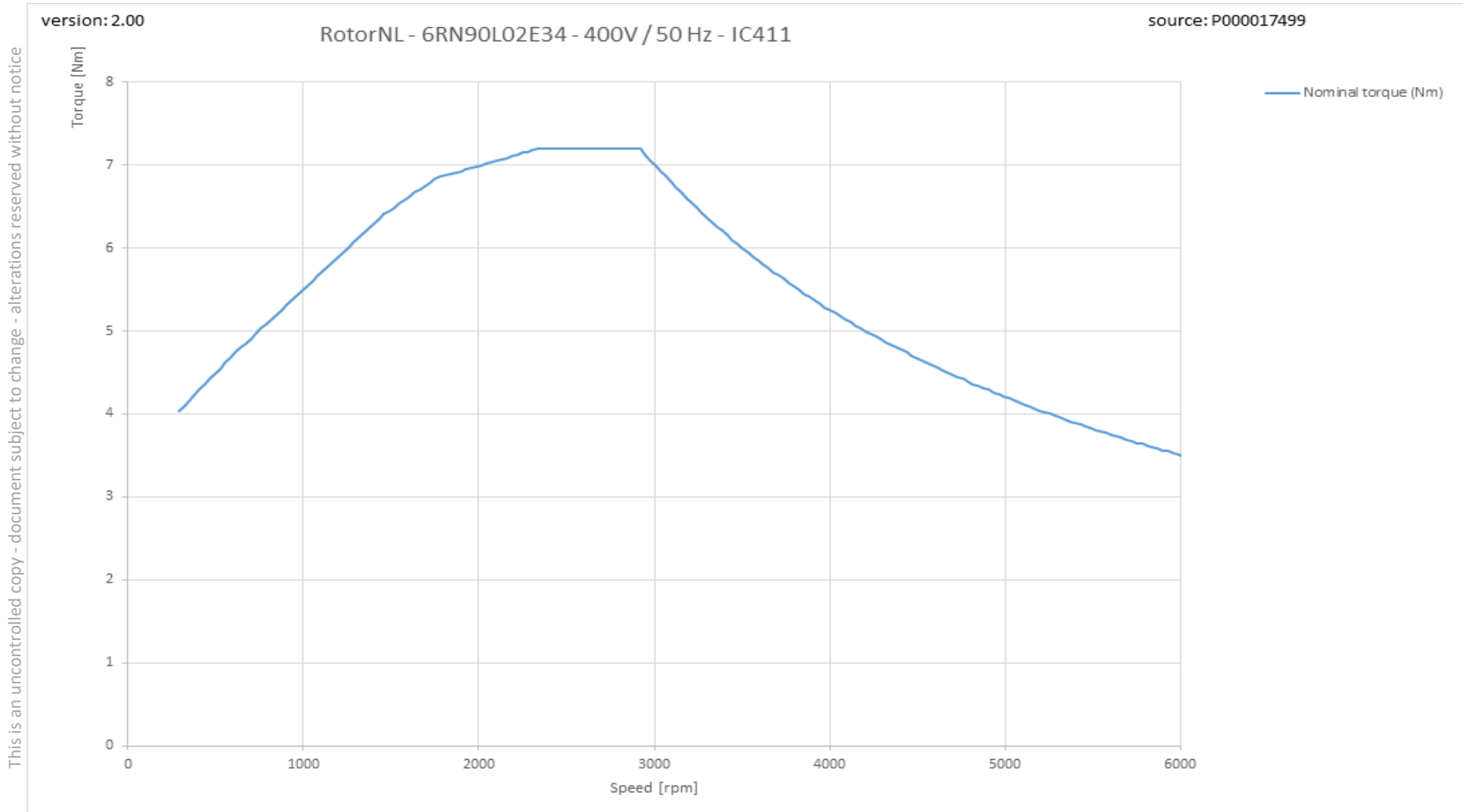
Direction of rotation	cw / ccw
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6RN90L02E34 2-pole 2,20kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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