

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN112M04E36VU46B2181-A

Catalog No: 6RN112M04E36VU46B@2181-A

5.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,
112M Frame B34, IC411



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Nameplate Specifications

Output HP	7.5 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	11.10 A	Speed	1460 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.80
Duty	S1	Insulation Class	F
Frame	112M	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	4	Rotation	Clockwise Shaft End
Mounting	B34	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN112M04E36VU46B2181-A		

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Datasheet



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Model No. 4-Pole cage motor 6RN 112M 5,5kW D400V 50Hz IM2181-FT130

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	5,5	7 1/3	11,1	1460	35,9	IE3	89,6	90,5	89,9	0,80	0,71	0,59	8,45	2,84	3,85
690	Y		6,4														
460	D	60	6,3	8,445	10,8	1760	34	IE2	91,0			0,80			8,50	2,82	3,85

Motor type	6RN112M04E36V
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	5,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	49 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
Phase resistance at 20°C	1,8810 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	284%	845%	275%	385%	6 A
@ D 460V 60Hz	282%	870%	273%	385%	5,37 A

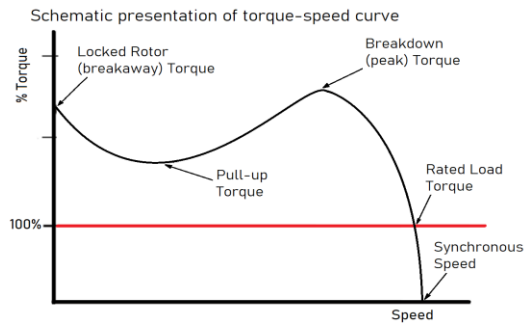
NOTE

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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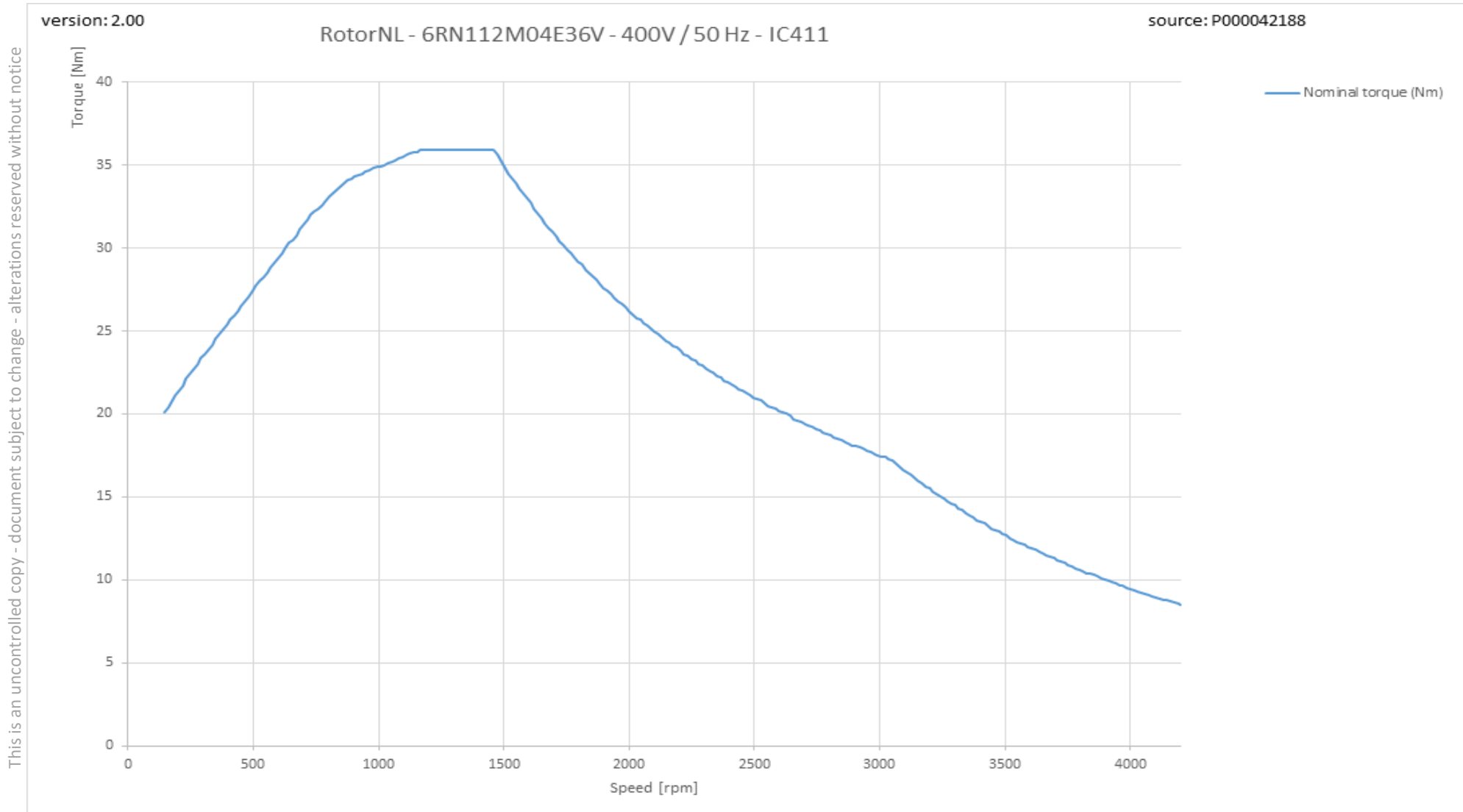
Degree of protection	IP55
Mounting type	IM2181-FT130
Cooling method	IC411
Motor weight - approx.	59 kg
Gross weight - approx.	61 kg
Motor inertia	0,0186 kgm²
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw



6RN112M04E36V 4-pole 5,50kW D/Y 400/690V 50Hz S1 IC411 IE3



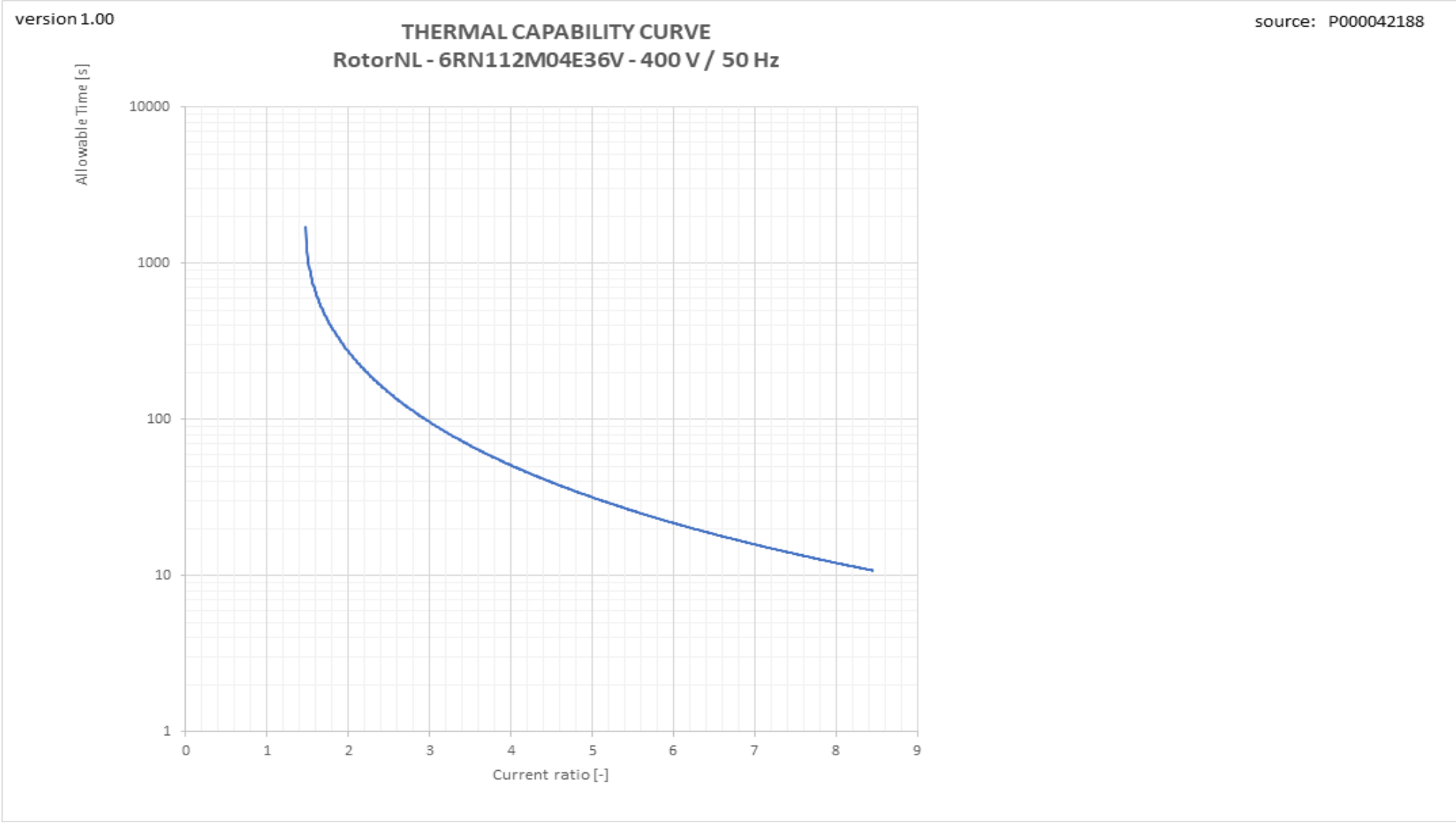
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

