

# PRODUCT INFORMATION PACKET



Model No: 6RN132M04E42U46B3641-A

Catalog No: 6RN132M04E42U46B@3641-A

7.50 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,  
132M Frame B14, IC411

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### Nameplate Specifications

Output HP	10.00 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	14.40 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	92.6 %	Power Factor	0.80
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6308-2Z/C3WT (-40°C/+160°C)
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE4

### 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
Outline Drawing	6RN132M04E42_3641-A		

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## Datasheet

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rotor B.V.

Mors 1-5, 7151 MX Eibergen NL  
 www.rotor.nl tel.: +31 545 464640  
 sales@rotor.nl tel.: +31 545 464646

**Model No.** 4-Pole cage motor 6RN 132M 7,5kW D400V 50Hz IM3641-FT165

U (V)	$\Delta$ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>R</sub> /T <sub>N</sub> [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	7,5	10	14,4	1470	48,6	IE4	92,0	92,4	92,0	0,80	0,74	0,63	8,82	3,01	4,02
690	Y				8,4												
460	D	60	8,6	11,53	14,3	1770	46,3	IE4	92,7	93,1	92,7	0,82	0,77	0,66	8,88	2,93	3,93

Motor type	<b>6RN132M04E42</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>132M</b>
Duty	<b>S1</b>
Voltage	<b>400 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>7,5 kW</b>
Insulation class	<b>F</b>
Ambient temperature	<b>-20 till 40 °C</b>
Temperature rise	<b>temp.rise acc. B (80K)</b>
Temperature rise winding	<b>42 K</b>
Temperature rise surface	
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Rotor type	<b>Cage motor</b>
Bearing type	<b>6308-2Z/C3WT</b>

Type of grease	<b>Unirex N3</b>
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Phase resistance at 20°C	<b>1,0484 Ohm</b>
Country of origin	<b>CZ</b>

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	301%	902%	224%	402%	6,95 A
@ D 460V 60Hz	293%	888%	186%	393%	6,16 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

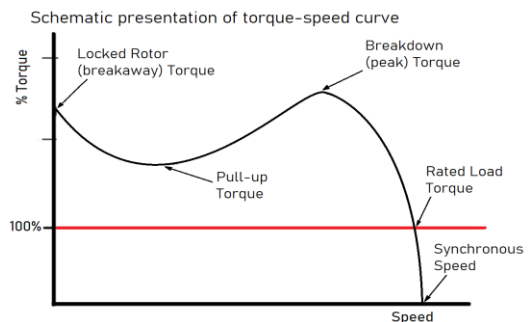
Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	<b>IP55</b>
Mounting type	<b>IM3641-FT165</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>82 kg</b>
Gross weight - approx.	<b>84 kg</b>
Motor inertia	<b>0,0460 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>

Direction of rotation	<b>cw / ccw</b>
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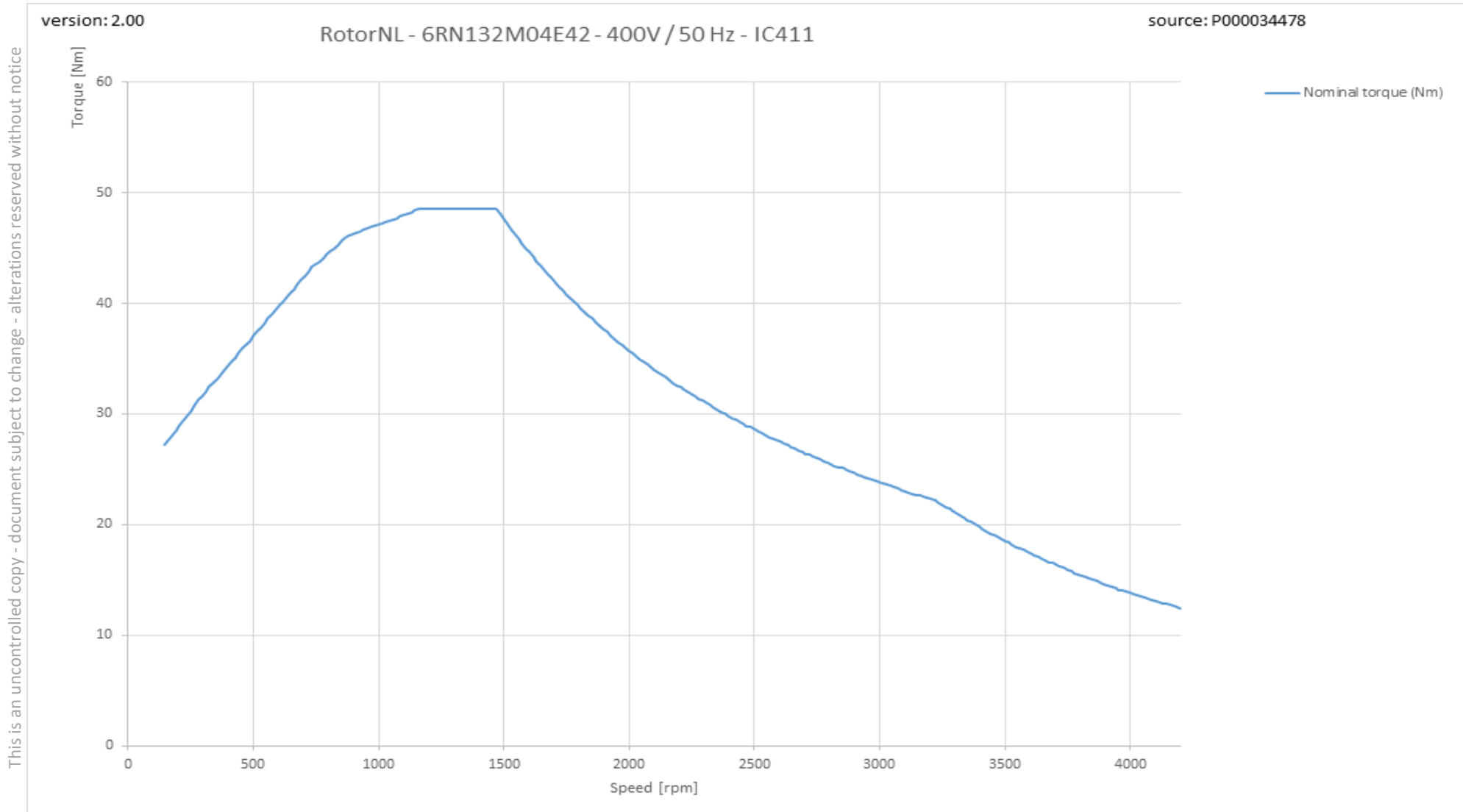
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6RN132M04E42 4-pole 7,5kW D/Y 400/690V 50Hz S1 IC411 IE4

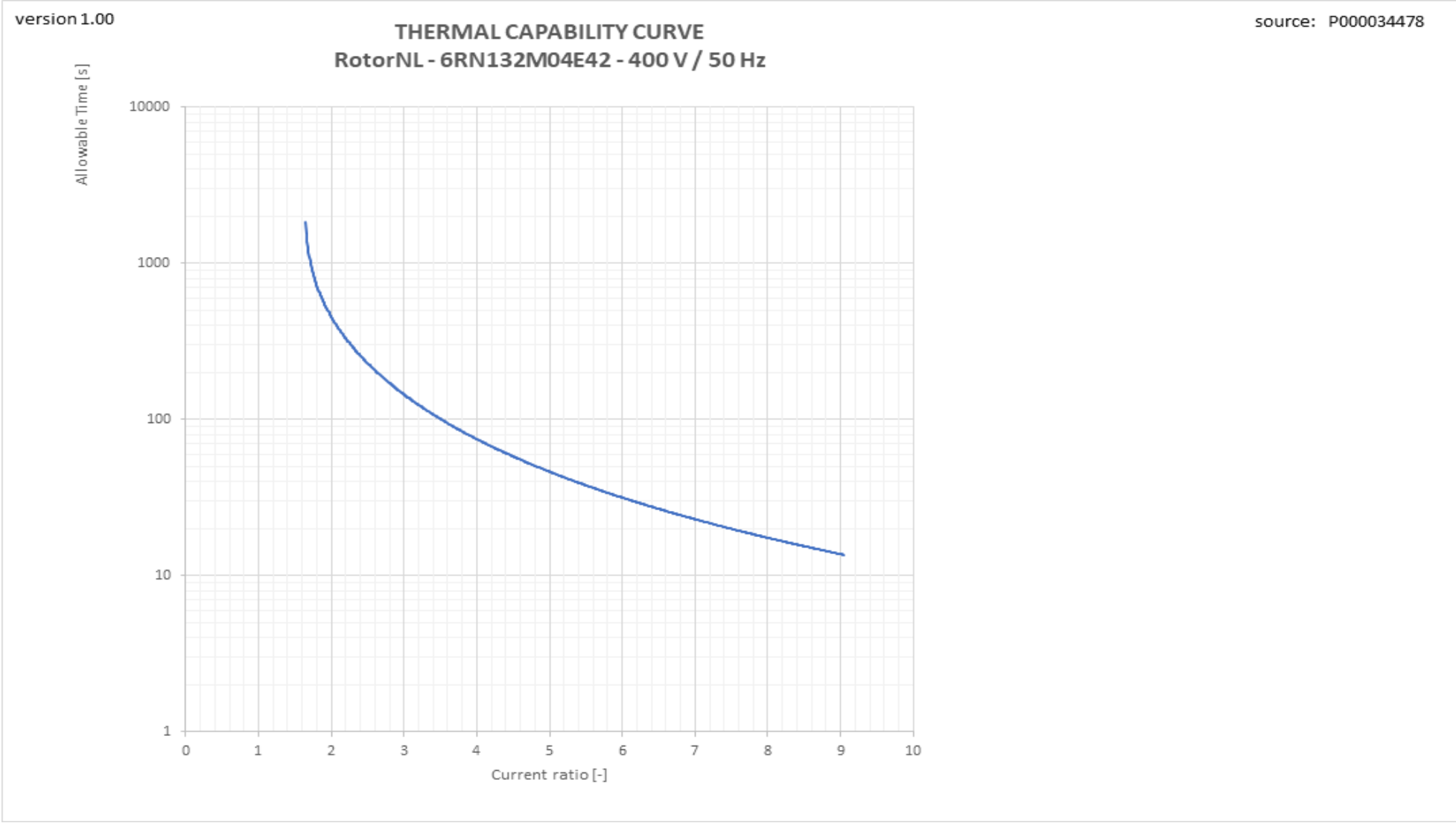


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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Tn graph

