

PRODUCT INFORMATION PACKET



Model No: 6RN132M06E32U46B2181-A

Catalog No: 6RN132M06E32U46B@2181-A

4.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
132M Frame B34, IC411



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Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	8.40 A	Speed	970 rpm
Service Factor	1	Phase	3
Efficiency	86.8 %	Power Factor	0.79
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	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Clockwise Shaft End
Mounting	B34	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	38 mm	Shaft Extension	80 mm
Outline Drawing	6RN132M06E32_2141-A		

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Datasheet

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Model No. 6-Pole cage motor 6RN 132M 4kW D400V 50Hz IM2181-FT165

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __load FL 3/4FL 1/2FL	I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
400	D	50	4	5 1/3	8,4	970	39	IE3	86,8 86,8 85,8	0,79 0,74 0,63	6,60	1,90	3,00
690	Y				4,84								
460	D	60	3,6	4,826	6,95	1180	29,2	IE3	89,7	0,73	7,42	2,22	3,69

Motor type	6RN132M06E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	132M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	4 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	48 K
Temperature rise surface	25 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6308-2Z/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	190%	659%	155%	300%	3,9 A
@ D 460V 60Hz	222%	741%	177%	369%	3,92 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-FT165
Cooling method	IC411
Motor weight - approx.	67 kg
Gross weight - approx.	69 kg
Motor inertia	0,0370 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	63 dB(A)

Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



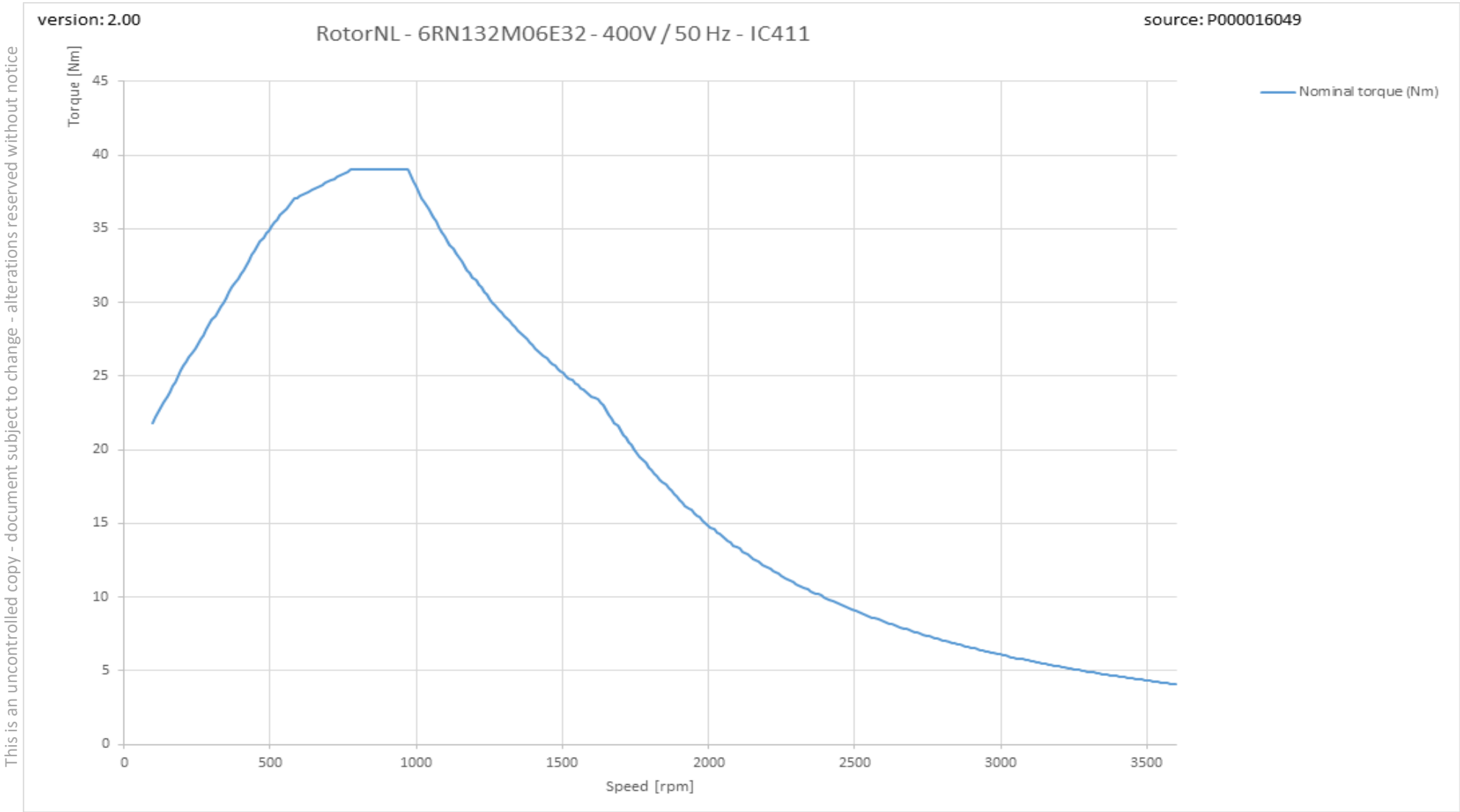
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6RN132M06E32 6-pole 4,00kW D/Y 400/690V 50Hz S1 IC411 IE3

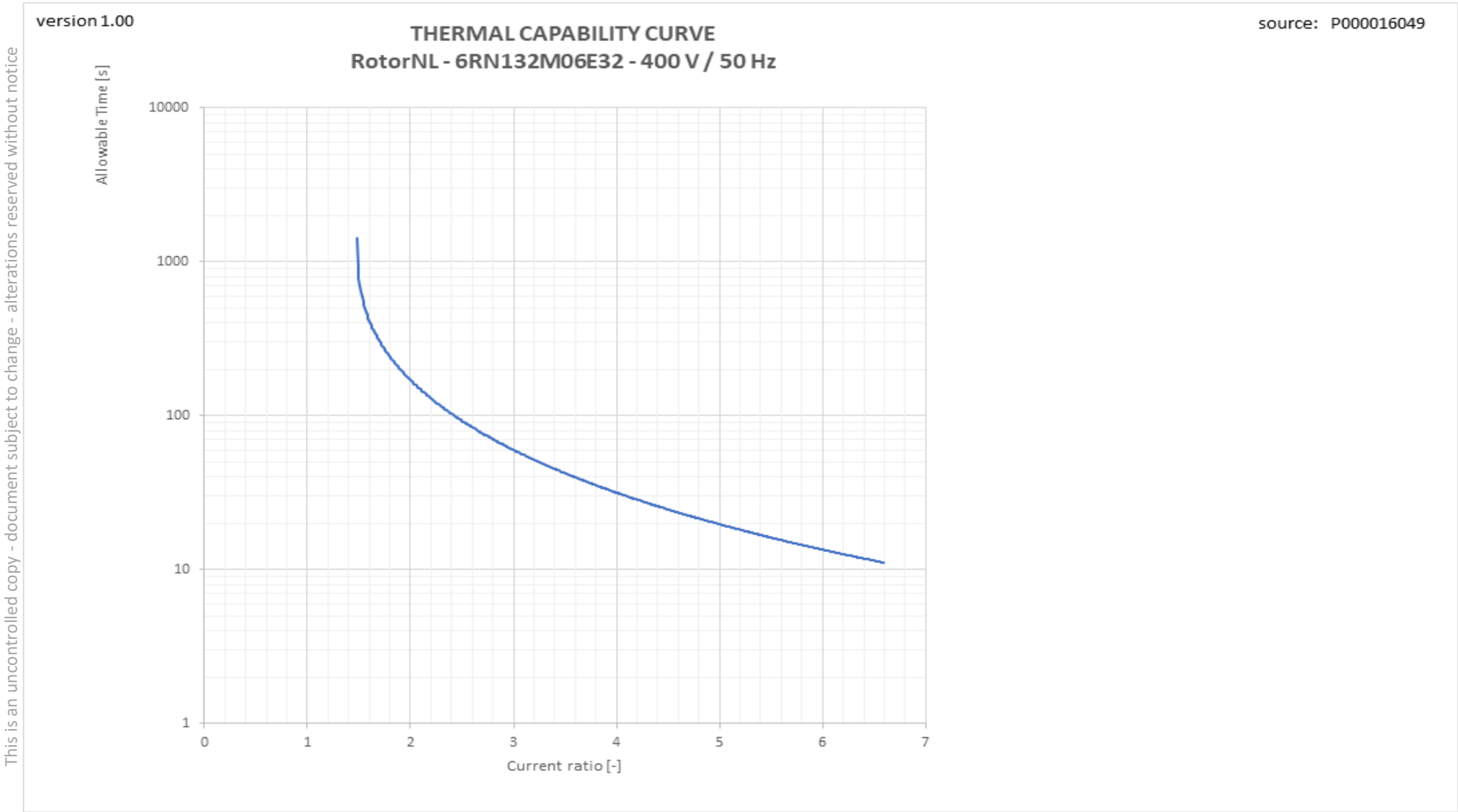


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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