

PRODUCT INFORMATION PACKET



Model No: 6RN160M06E42U463041

Catalog No: 6RN160M06E42U46@3041

7.50 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1000 rpm, D400/Y690V 50Hz,
160M Frame B5, IC411

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Nameplate Specifications

Technical Specifications

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Datasheet

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Model No. 6-Pole cage motor 6RN 160M 7,5kW D400V 50Hz IM3041-FF300

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	7,5	10	15,6	980	73	IE4	91,3	0,76	5,60	2,20	2,50
690	Y				9								
460	D	60	8,6	11,53	15,5	1180	70	IE4	92,4	0,75	5,70	2,20	2,50

Motor type	6RN160M06E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	7,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6309-2Z/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	220%	560%		250%	
@ D 460V 60Hz	220%	570%		250%	

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

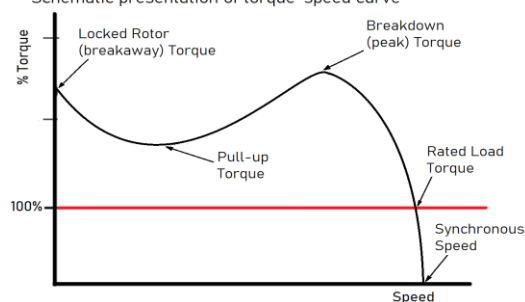
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Degree of protection	IP55
Mounting type	IM3041-FF300
Cooling method	IC411
Motor weight - approx.	120 kg
Gross weight - approx.	124 kg

Vibration level	according IEC60034-14
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Direction of rotation	cw /ccw
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Schematic presentation of torque-speed curve



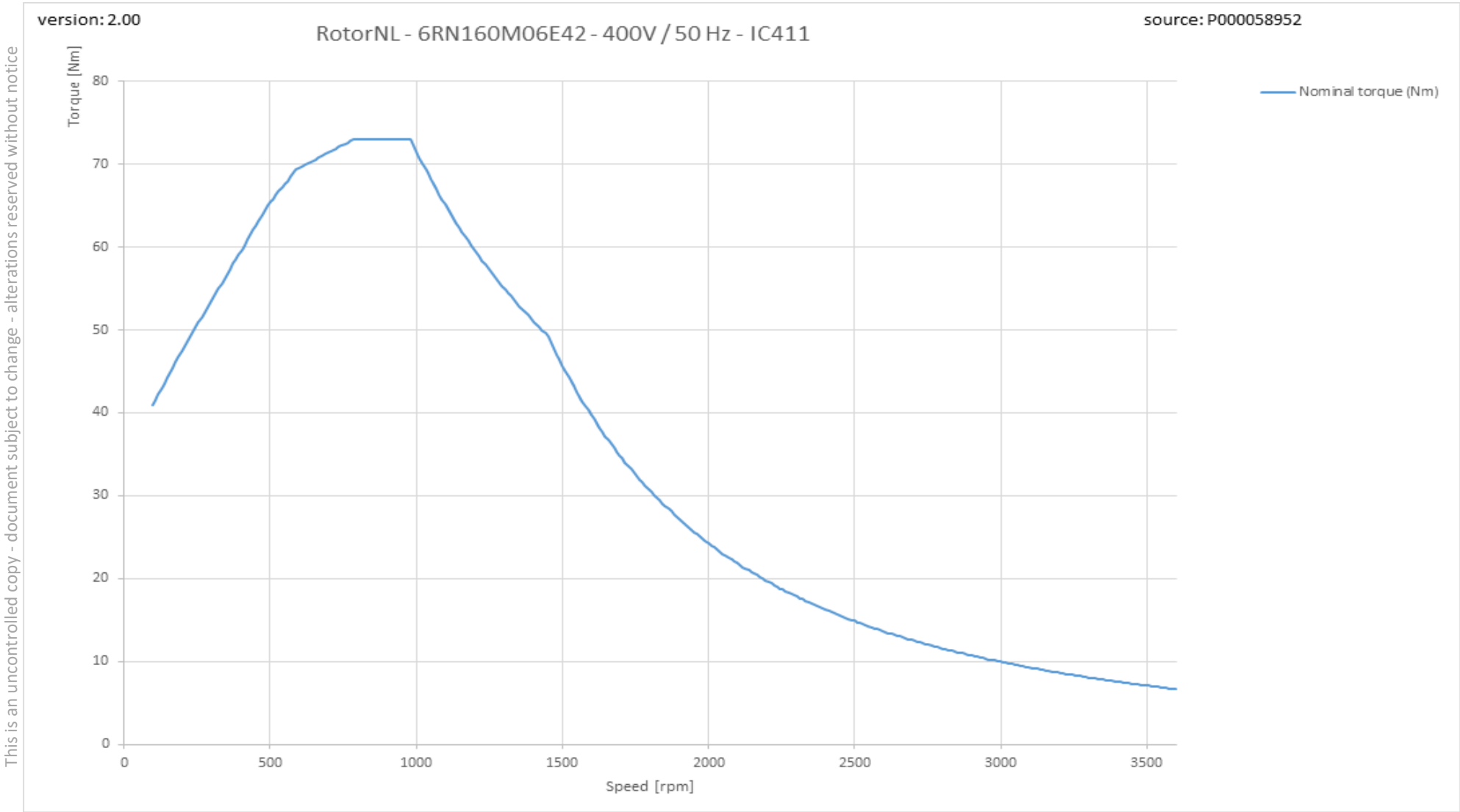
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6RN160M06E42 6-pole 7,5kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



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