

PRODUCT INFORMATION PACKET



Model No: 6RN112M02E42U243041

Catalog No: 6RN112M02E42U24@3041

4.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 3000 rpm, D230/Y400V 50Hz,
112M Frame B5, IC411

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Nameplate Specifications

Technical Specifications

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Datasheet



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

Model No. 2-Pole cage motor 6RN 112M 4kW D230V 50Hz IM3041-FF215

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			
230	D	50	4	5 1/3	12,5	2948	12,9	IE3	89,6			0,90			9,85	2,56	4,05
400	Y		7,2														

Motor type	6RN112M02E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	230 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	42 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

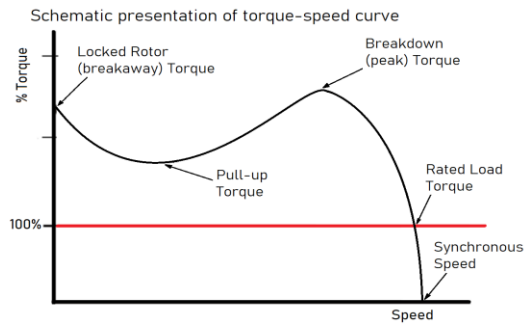
Degree of protection	IP55
Mounting type	IM3041-FF215
Cooling method	IC411
Motor weight - approx.	45 kg
Gross weight - approx.	46 kg
Motor inertia	0,0120 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	69 dB(A)

Rotor type	Cage motor
Bearing type	6306-2Z/C3WT
Type of grease	Unirex N3
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 230V 50Hz	256%	984%	187%	405%	4,1 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



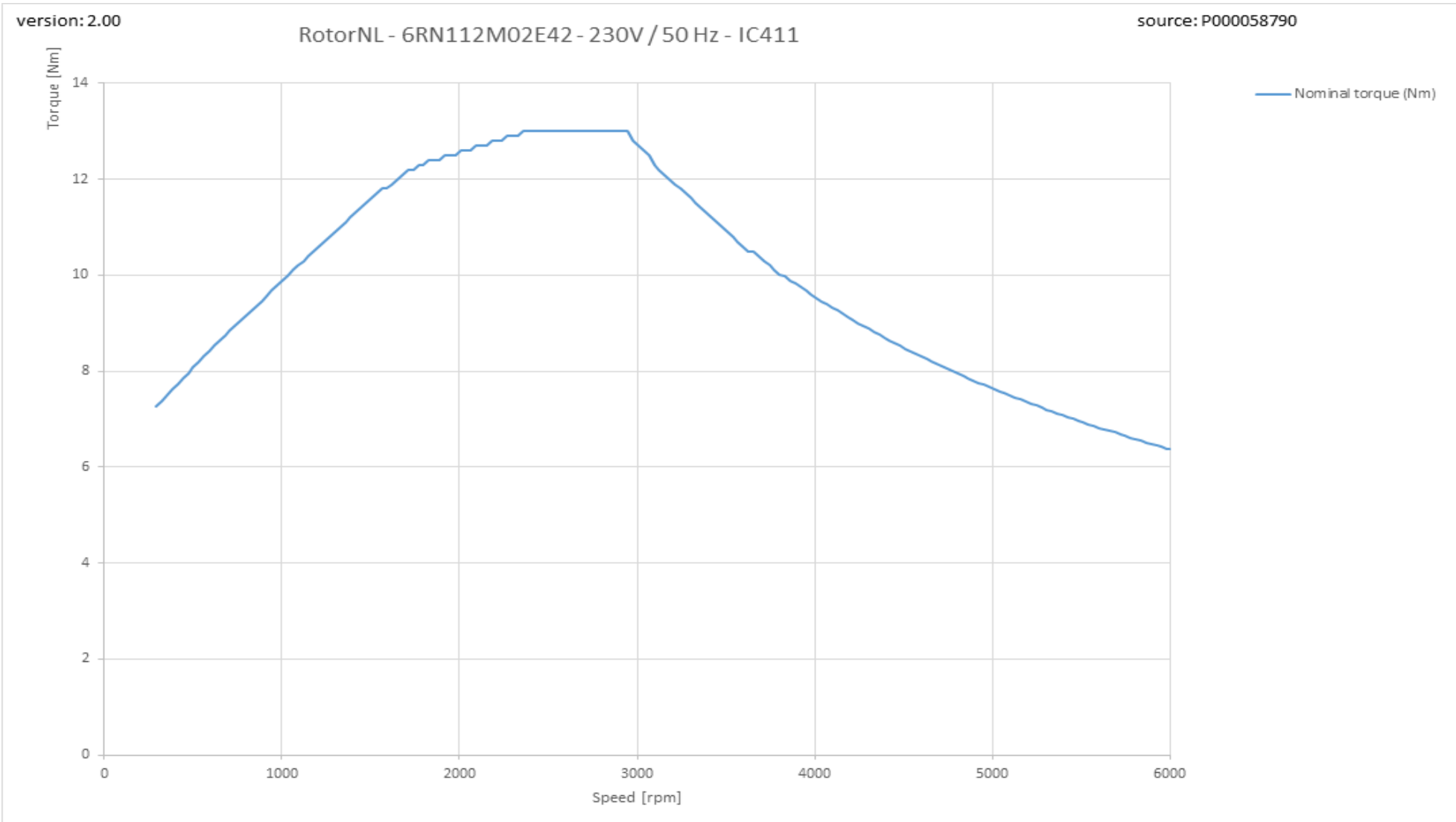
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V2.07

6RN112M02E42 2-pole 4,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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