

# PRODUCT INFORMATION PACKET



Model No: 6RN315M04E40U461041

Catalog No: 6RN315M04E40U46@1041

110.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,  
315M Frame B3, IC411

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Nameplate Specifications

Technical Specifications

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Datasheet



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**Model No.** 4-Pole cage motor 6RN 315M 110kW D400V 50Hz IM1041

U (V)	Δ / Y Conn	f [Hz]	P		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]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	110	150	192	1491	704	IE4	96,5	96,5	96,1	0,85	0,82	0,74	9,04	3,29	3,26
690	Y		110														
460	D	60	127	170,2	192	1791	677	IE4	96,4	96,4	95,9	0,86	0,83	0,75	8,87	3,20	3,11

Motor type	<b>6RN315M04E40</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>315M</b>
Duty	<b>S1</b>
Voltage	<b>400 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>110 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>48 K</b>
Temperature rise surface	<b>25 K</b>
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Rotor type	<b>Cage motor</b>
Bearing type	<b>6319/C3</b>
Lubrication method	<b>40gr/6000hrs</b>
Type of grease	<b>Unirex N3</b>

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	329%	906%	250%	326%	65,6 A
@ D 460V 60Hz	320%	880%	234%	311%	61 A

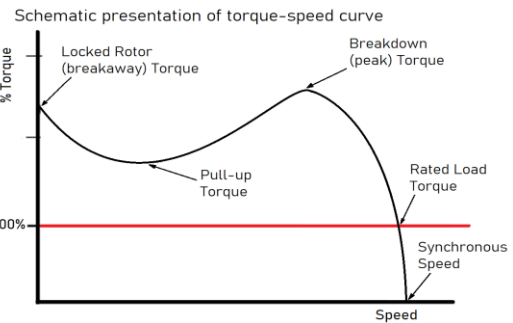
**NOTE**

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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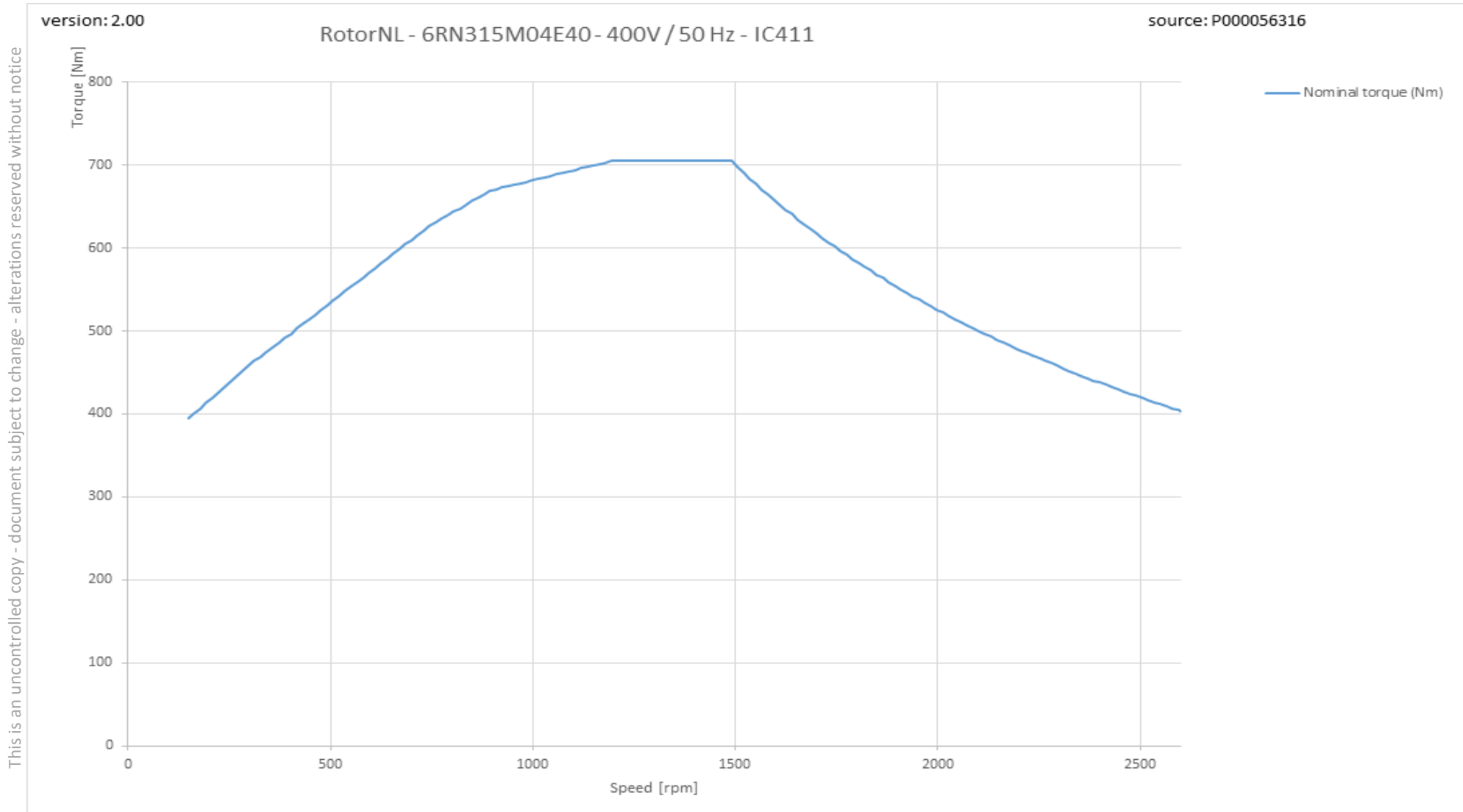
Degree of protection	<b>IP55</b>
Mounting type	<b>IM1041</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>910 kg</b>
Gross weight - approx.	<b>940 kg</b>
Motor inertia	<b>2,7000 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>
Direction of rotation	<b>cw / ccw</b>
	<b>PTC 150°C</b>



6RN315M04E40 4-pole 110,00kW D/Y 400/690V 50Hz S1 IC411 IE4

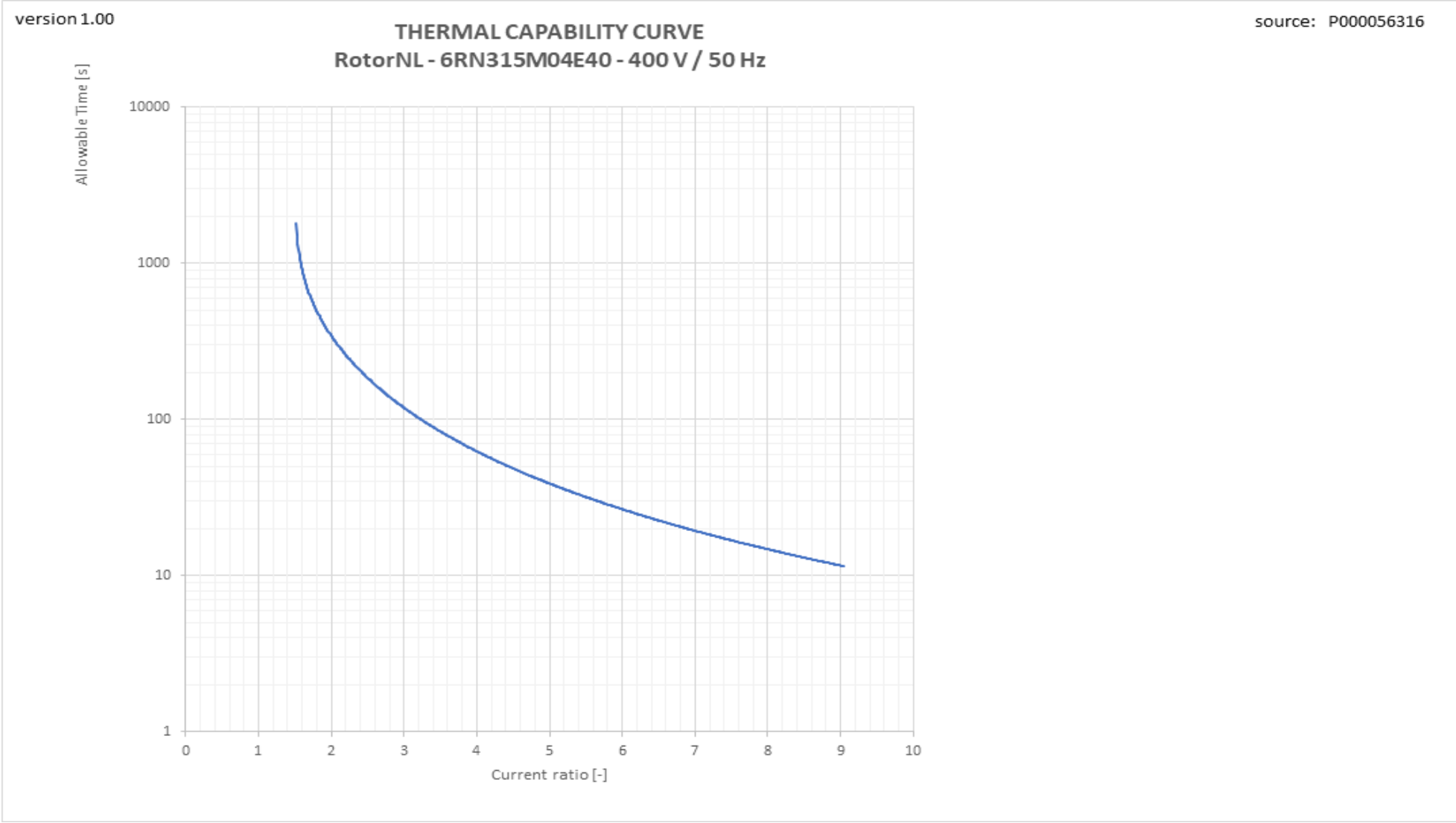


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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