

PRODUCT INFORMATION PACKET



Model No: 6RN315M04E40U46B2021

Catalog No: 6RN315M04E40U46B@2021

110.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,
315M Frame B35, 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 IM2021-FF600

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			
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	6RN315M04E40
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	110 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

Degree of protection	IP55
Mounting type	IM2021-FF600
Cooling method	IC411
Motor weight - approx.	910 kg
Gross weight - approx.	940 kg
Motor inertia	2,7000 kgm²
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw
	PTC 150°C

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

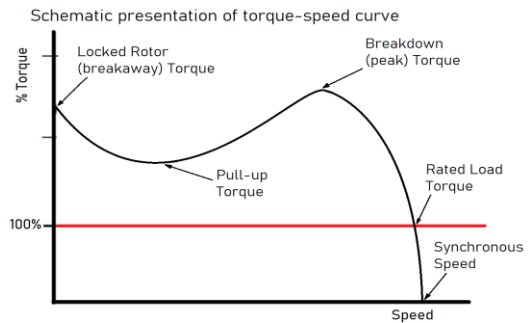
Country of origin **CZ**

Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 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



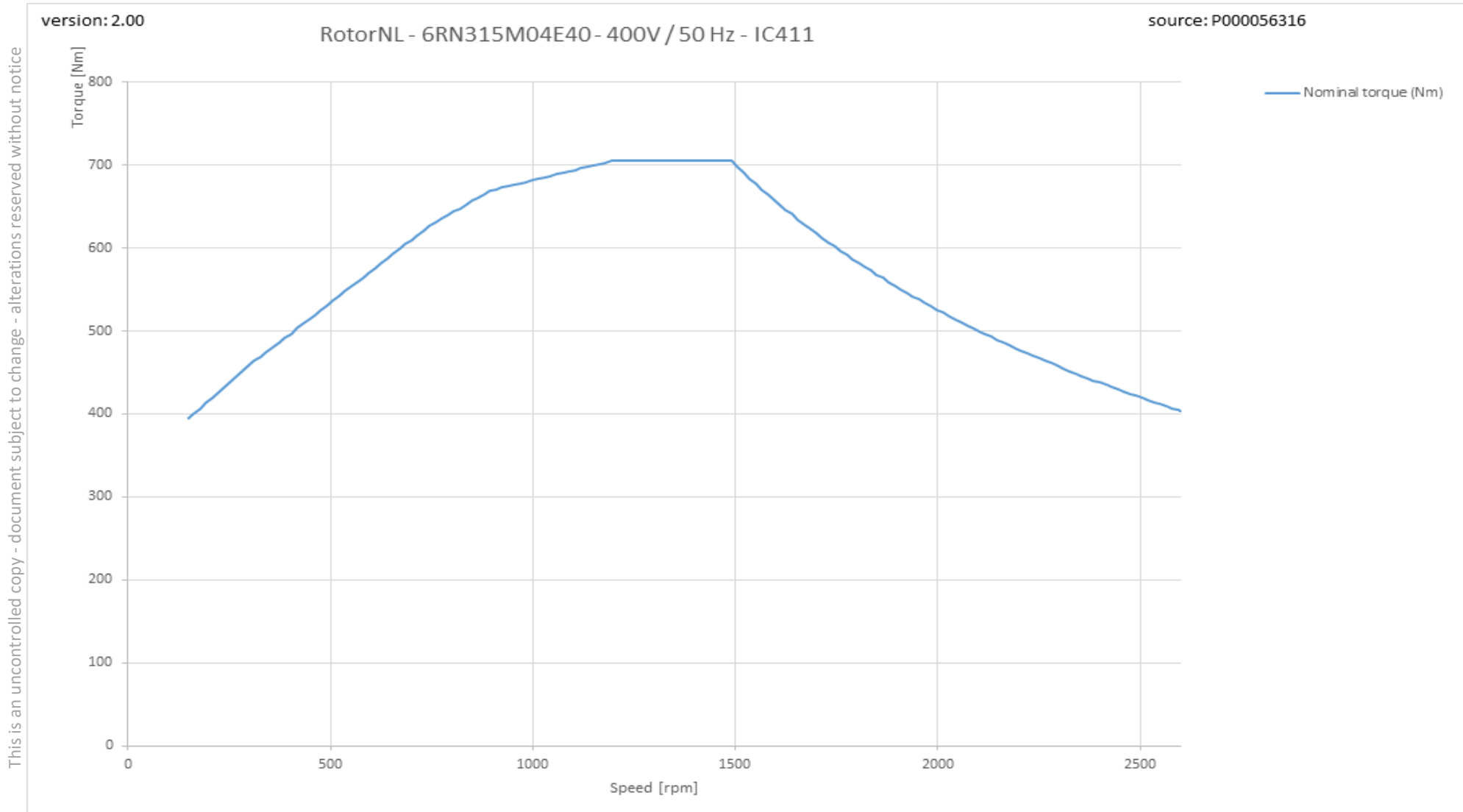
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6RN315M04E40 4-pole 110,00kW D/Y 400/690V 50Hz S1 IC411 IE4

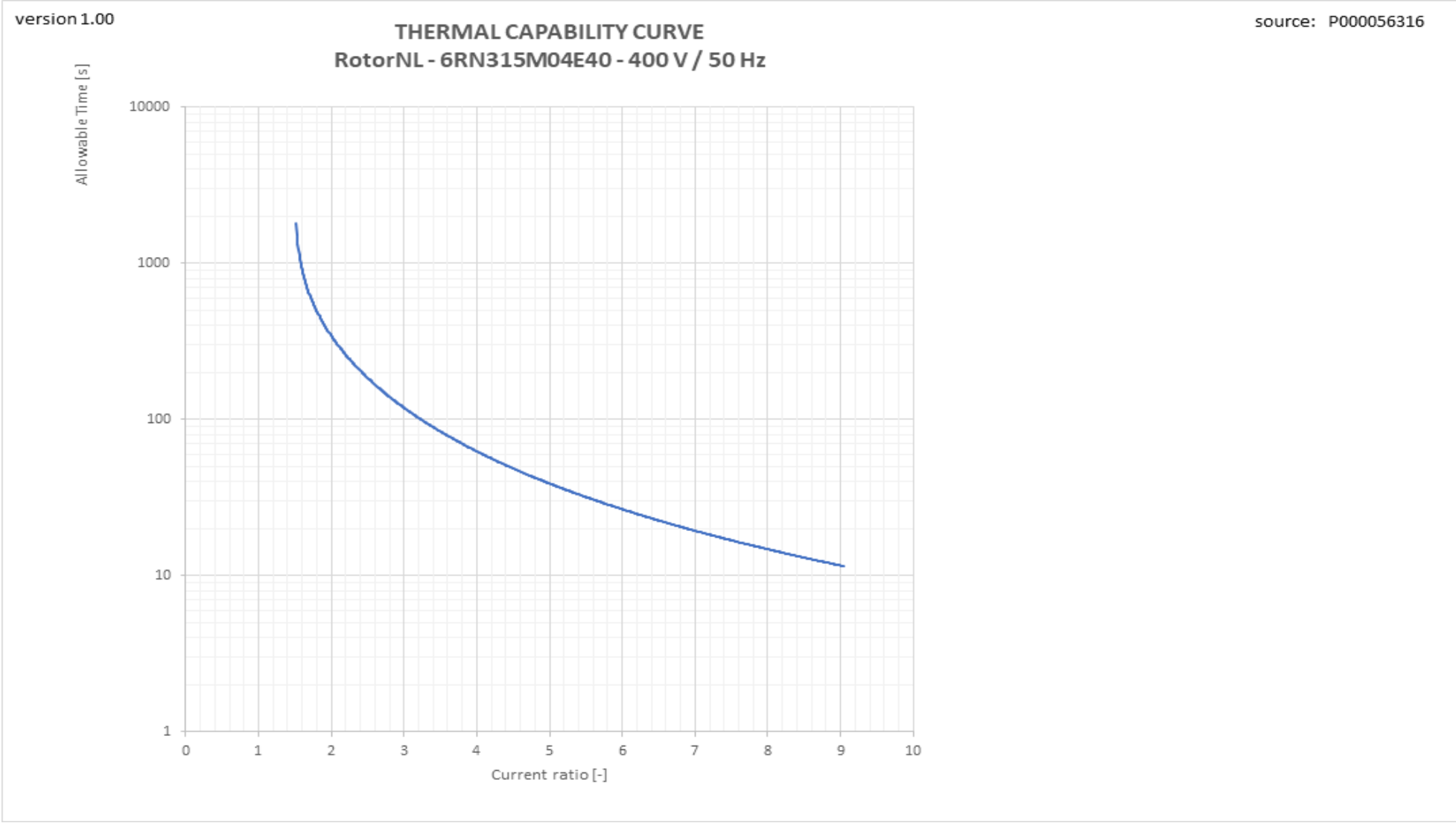


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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