

PRODUCT INFORMATION PACKET



Model No: 6RN315L04E44U46B2021

Catalog No: 6RN315L04E44U46B@2021

160.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,
315L Frame B35, IC411

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Nameplate Specifications

Output HP	215.00 Hp	Output KW	160.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	276.40 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96.6 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319/C3	Opp Drive End Bearing Size	6319/C3
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN315L04E44_2041		

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Datasheet


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Model No. 4-Pole cage motor 6RN 315L 160kW D400V 50Hz IM2021-FF600

U (V)	Δ / Y	f [Hz]	P [kW]	P [hp]	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]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	9,21	3,56	3,29
400	D	50	160	214,5	280	1490	1020	IE4	96,6	####	96,5	0,87	0,83	####	9,19	3,53	3,14
690	Y			161													
460	D	60	184	246,6	280	1790	981	IE4	96,7	96,8	96,5	0,87	0,84	0,77	9,19	3,53	3,14

Motor type	6RN315L04E44	Degree of protection	IP55
Enclosure	Totally Enclosed Fan Cooling	Mounting type	IM2021-FF600
Frame Material	Cast iron	Cooling method	IC411
Frame size	315L	Motor weight - approx.	1170 kg
Duty	S1	Gross weight - approx.	1210 kg
Voltage	400 V	Motor inertia	3,7000 kgm ²
Frequency	50 Hz	Vibration level	according IEC60034-14
Power output	160 kW	Noise level (pressure) acc 60034-9	73 dB(A)
Insulation class	F		
Ambient temperature	-20 till 40 °C		
Temperature rise	temp.rise acc. B (80K)		
Temperature rise winding	54 K		
Temperature rise surface	23 K		
Altitude above sea level	1000 mtr		
Hazardous area classification	Safe area		
			PTC 150°C
Rotor type	Cage motor		
Bearing type	6319/C3		
Lubrication method	40gr/6000hrs		
Type of grease	Unirex N3		
Phase resistance at 20°C	0,0188 Ohm		
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	356%	907%	264%	329%	85,3 A
@ D 460V 60Hz	353%	896%	246%	314%	78,1 A

NOTE

All performance values at rated voltage and frequency.

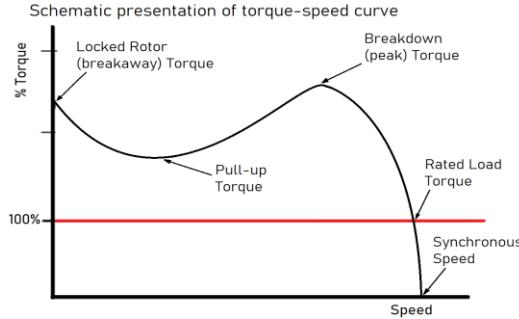
All performance parameters are subjected to standard tolerance as per IEC 60034-1

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



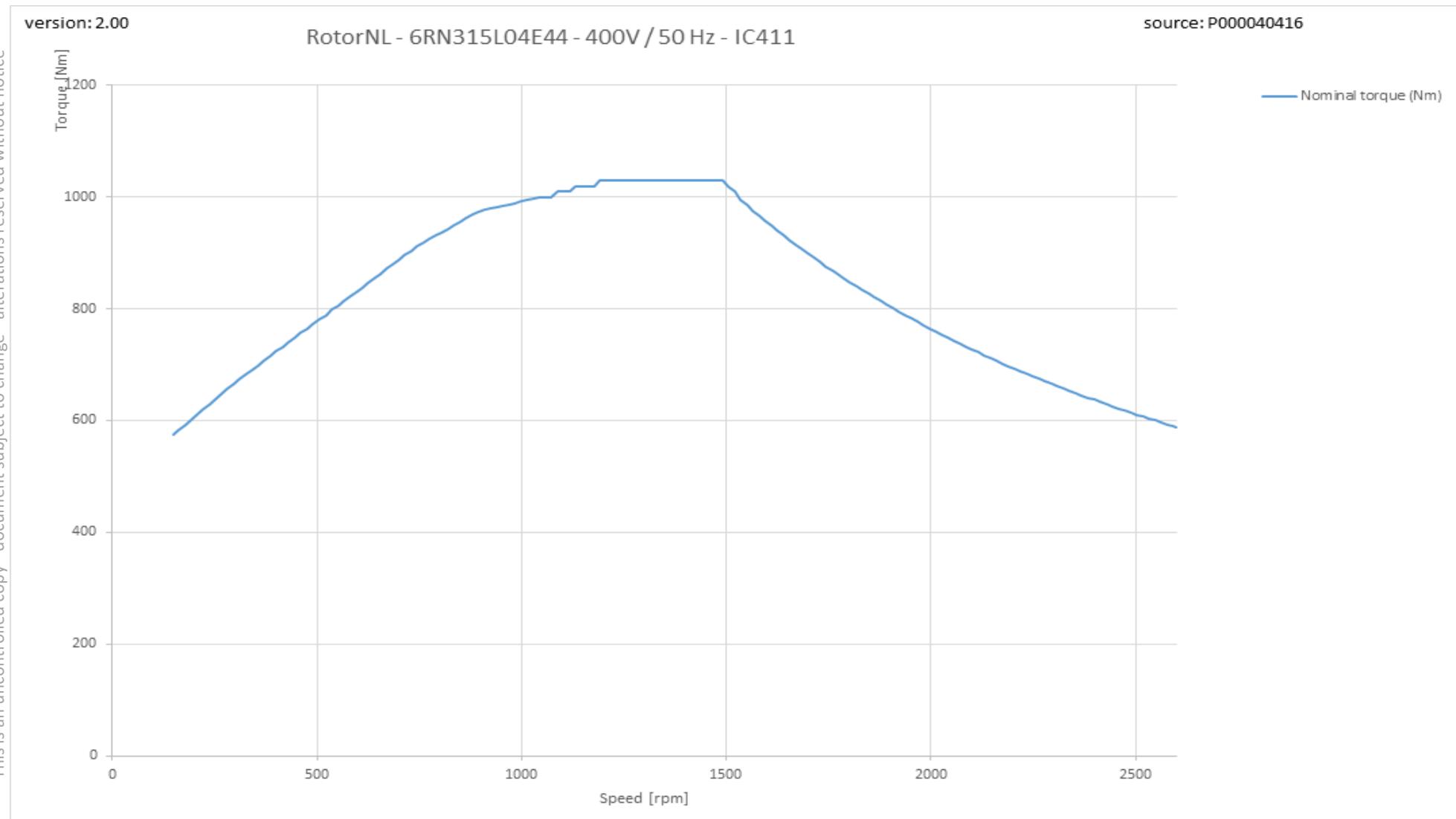
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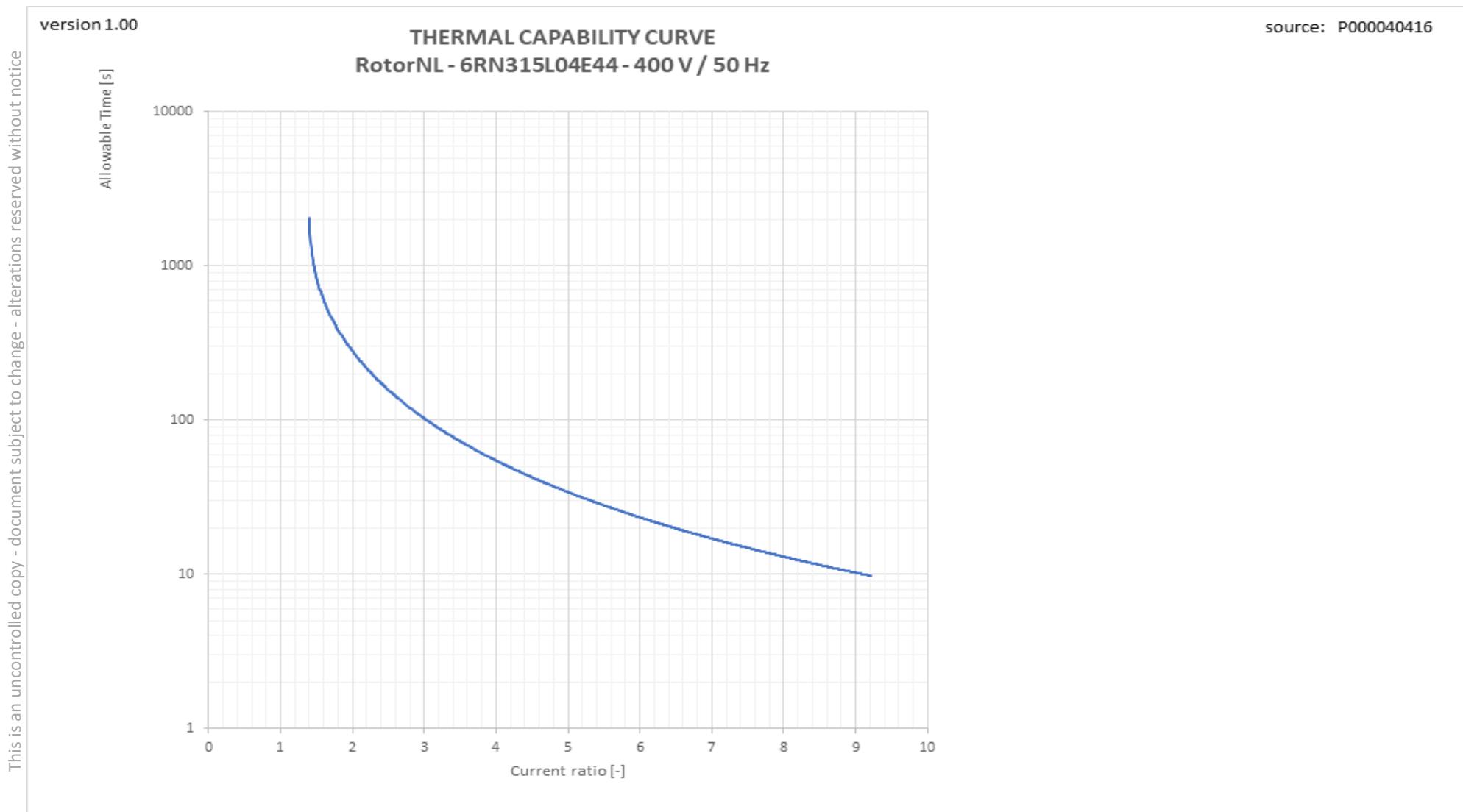
6RN315L04E44 4-pole 160,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph

