

PRODUCT INFORMATION PACKET



Model No: 6RN315L04E47U46B2021

Catalog No: 6RN315L04E47U46B@2021

315.00 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	425.00 Hp	Output KW	315.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	563.60 A	Speed	1488 rpm
Service Factor	1	Phase	3
Efficiency	96.7 %	Power Factor	0.83
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	6RN315L04E47_2021		

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Datasheet


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Model No. 4-Pole cage motor 6RN 315L 315kW 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	8,53	3,35	3,43
400	D	50	315	425	560	1488	2020	IE4	96,6	96,7	96,3	0,83	0,79	0,69			
690	Y				323												
460	D	60	362	485,3	550	1788	1930	IE4	96,7	96,8	96,4	0,85	0,82	0,72	8,05	3,29	3,45

Motor type	6RN315L04E47	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.	1550 kg
Duty	S1	Gross weight - approx.	1600 kg
Voltage	400 V	Motor inertia	4,4000 kgm ²
Frequency	50 Hz	Vibration level	according IEC60034-14
Power output	315 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	76 K		
Temperature rise surface	42 K		
Altitude above sea level	1000 mtr	Direction of rotation	cw /ccw
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	0,0090 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	335%	858%	276%	343%	219 A
@ D 460V 60Hz	329%	807%	271%	345%	192 A

NOTE

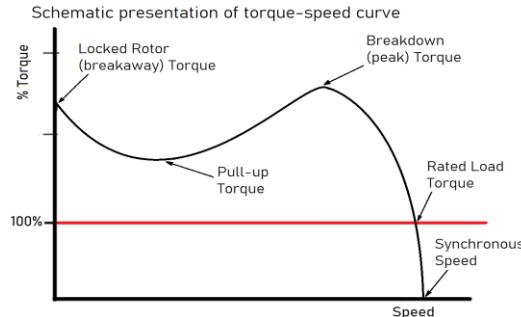
All performance values at rated voltage and frequency.

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



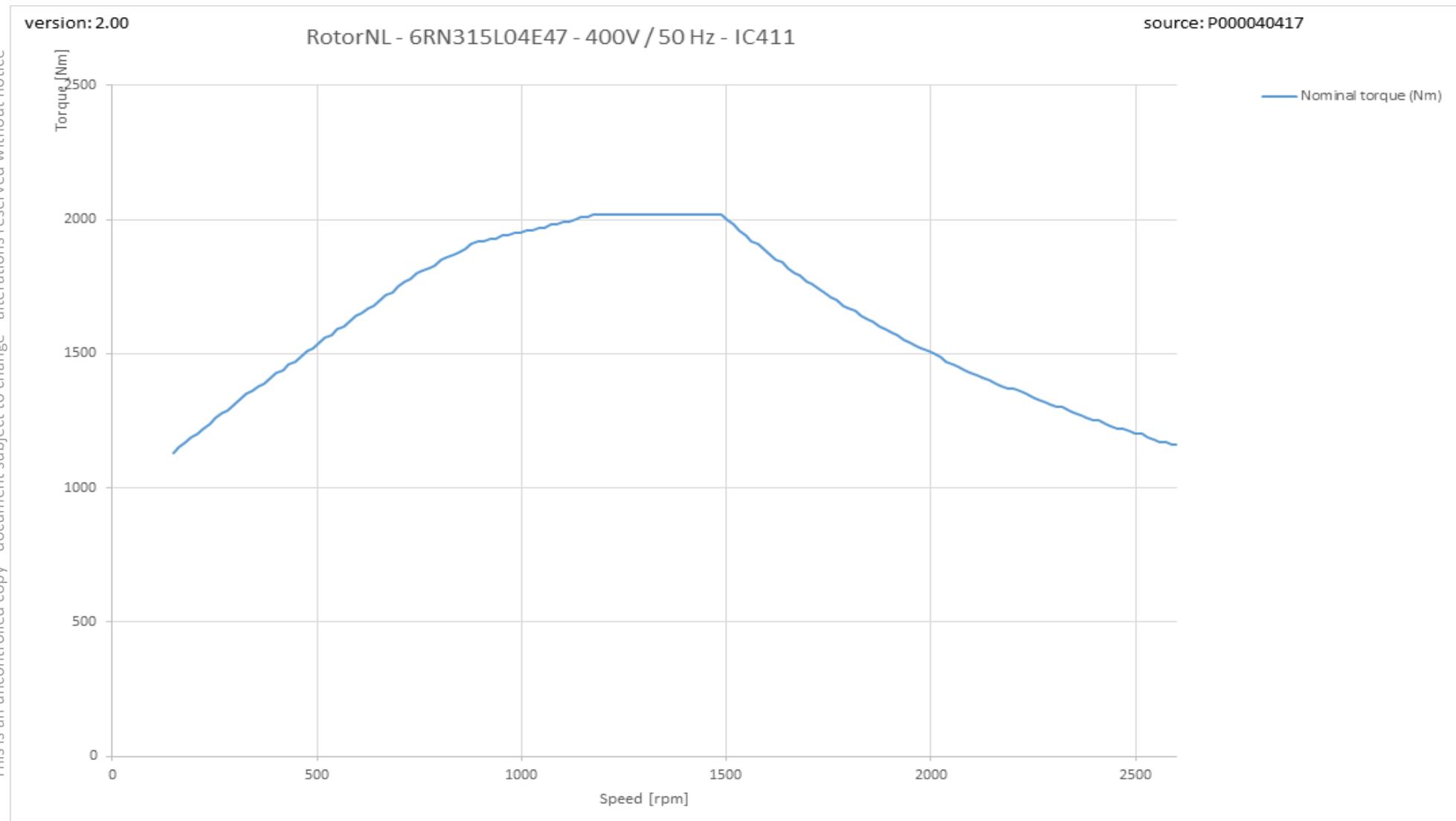
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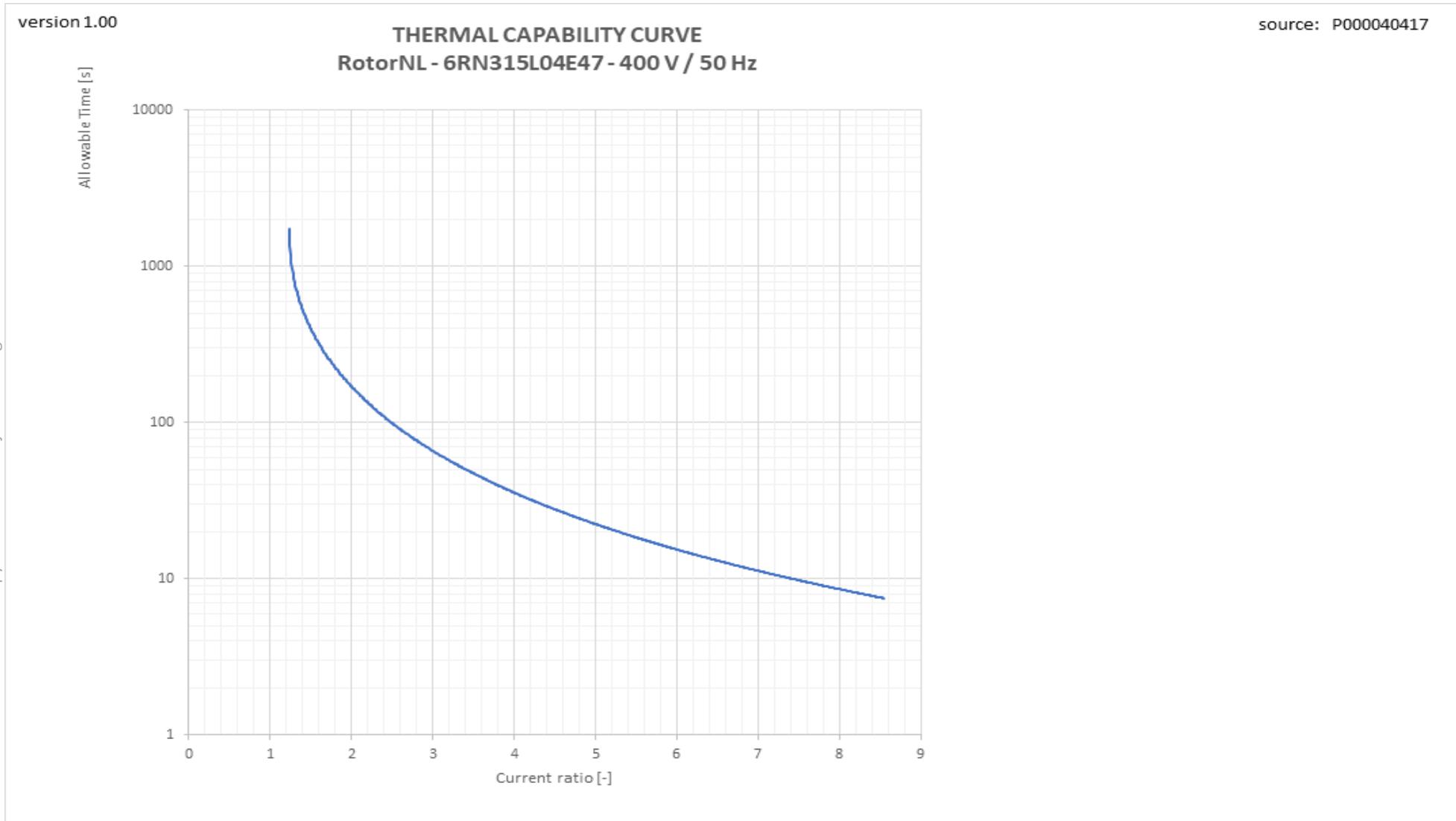
6RN315L04E47 4-pole 315,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph

