

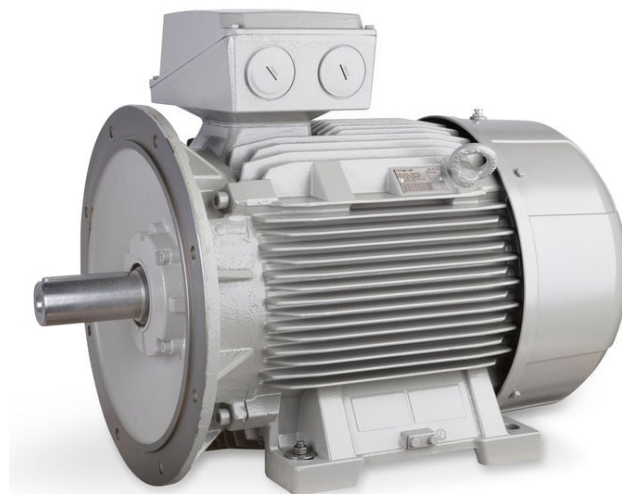
# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN315S04E30U46B2021-Uni

Catalog No: 6RN315S04E30U46B@2021-Uni

110.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,  
315S Frame B35, IC411



Regal and Rotor nl are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord



### Nameplate Specifications

Output HP	150.00 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	192.10 A	Speed	1488 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	315S	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	IE3

### 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
Shaft Diameter	80 mm	Shaft Extension	170 mm
Outline Drawing	6RN315S04E30_1041		

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022

Datasheet



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

**Model No.** 4-Pole cage motor 6RN 315S 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 <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	1488	705	IE3	95,6	95,9	95,7	0,86	0,84	0,76	7,17	2,44	2,76
690	Y		111														
460	D	60	127	170,2	191	1788	678	IE3	95,8	96,0	95,8	0,87	0,85	0,78	7,03	2,41	2,63

Motor type	<b>6RN315S04E30</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>315S</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>63 K</b>
Temperature rise surface	<b>26 K</b>
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Degree of protection	<b>IP55</b>
Mounting type	<b>IM2021-FF600</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>800 kg</b>
Gross weight - approx.	<b>820 kg</b>
Motor inertia	<b>2,2000 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>
Noise level (pressure) acc 60034-9	<b>70 dB(A)</b>
Direction of rotation	<b>cw / ccw</b>
	<b>PTC 150°C</b>

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

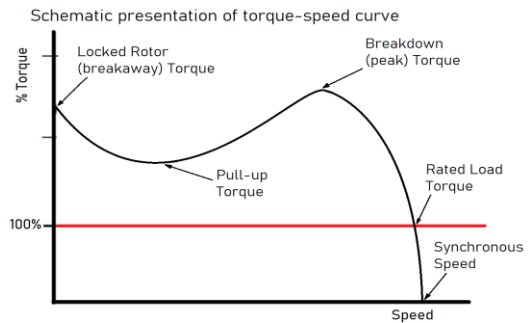
Phase resistance at 20°C	<b>0,0379 Ohm</b>
Country of origin	<b>CZ</b>

Voltage/Freq	Locked rotor Torque [nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	244%	713%	210%	276%	57,5 A
@ D 460V 60Hz	241%	701%	196%	263%	53,2 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.

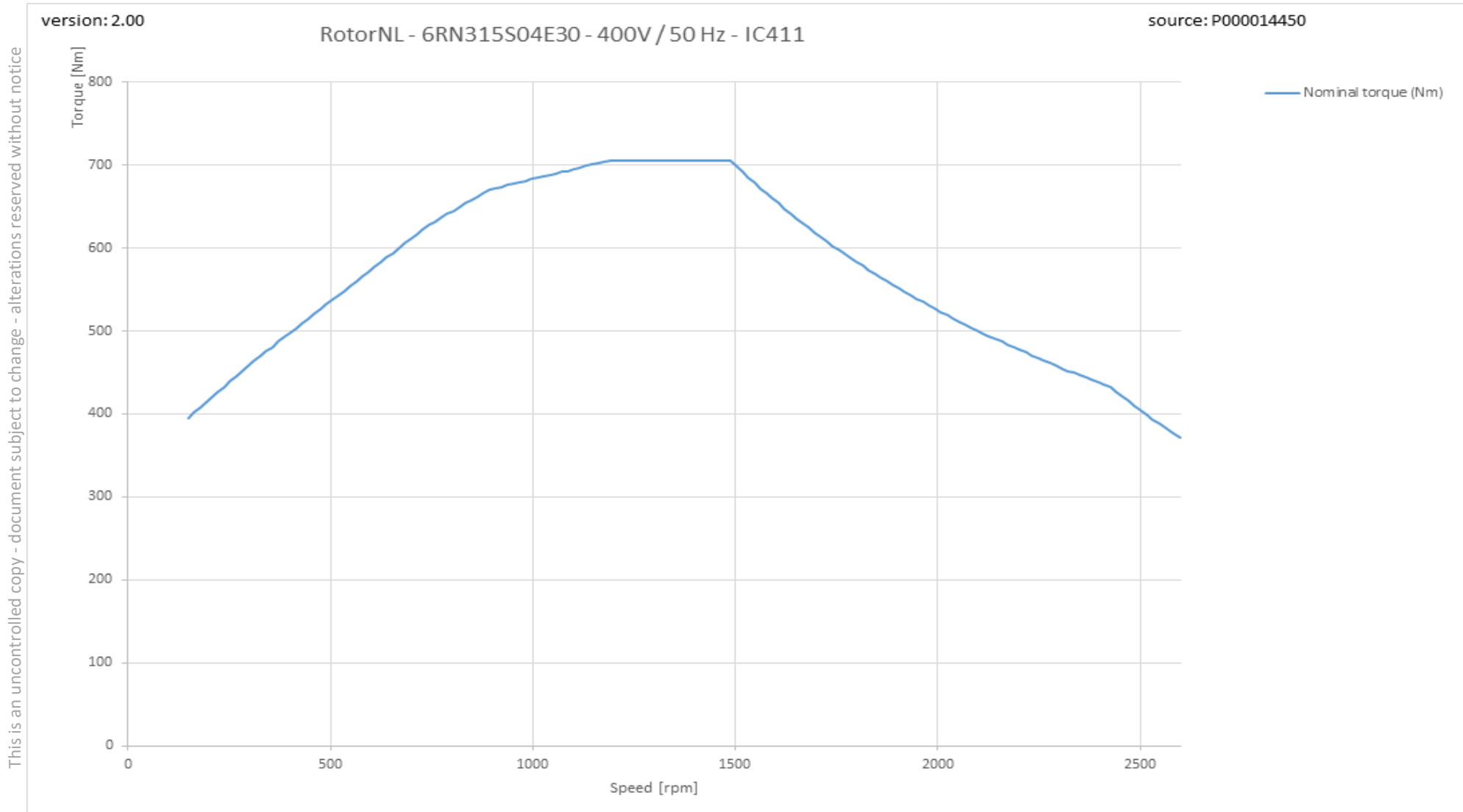
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30



6RN315S04E30 4-pole 110,00kW D/Y 400/690V 50Hz S1 IC411 IE3

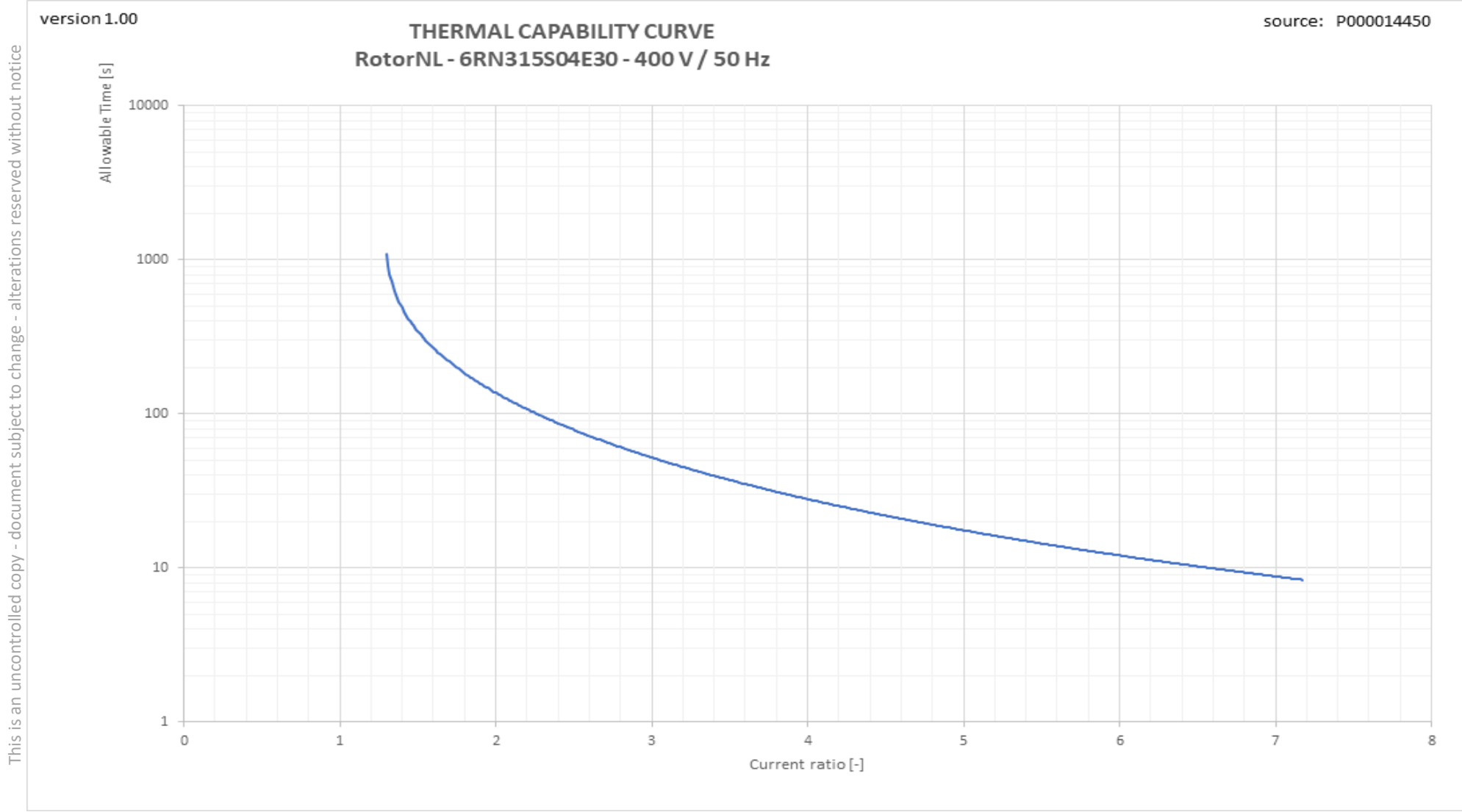


Torque versus Speed curve with variable frequency drive



This is an uncontrolled copy - document subject to change - alterations reserved without notice

Therm\_VSD graph



This is an uncontrolled copy - document subject to change - alterations reserved without notice

Tn graph

