

# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN315S06E40U461041

Catalog No: 6RN315S06E40U46@1041

75.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,  
315S Frame B3, IC411



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**Nameplate Specifications**

Output HP	100.00 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	135.00 A	Speed	992 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	0.84
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	6	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed

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Datasheet



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**Model No.** 6-Pole cage motor 6RN 315S 75kW 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	75	100	135	992	722	IE4	95,4			0,84			8,20	2,70	3,50
690	Y				78												
460	D	60	90	120	139	1191	722	IE4	95,8			0,85			8,00	2,50	3,30

Motor type	<b>6RN315S06E40</b>	Degree of protection	<b>IP55</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>	Mounting type	<b>IM1041</b>
Frame Material	<b>Cast iron</b>	Cooling method	<b>IC411</b>
Frame size	<b>315S</b>	Motor weight - approx.	<b>660 kg</b>
Duty	<b>S1</b>	Gross weight - approx.	<b>680 kg</b>
Voltage	<b>400 V</b>		
Frequency	<b>50 Hz</b>		
Power output	<b>75 kW</b>	Vibration level	<b>according IEC60034-14</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 surface		Direction of rotation	<b>cw / ccw</b>
Altitude above sea level	<b>1000 mtr</b>		
Hazardous area classification	<b>Safe area</b>		<b>PTC 150°C</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	<b>CZ</b>

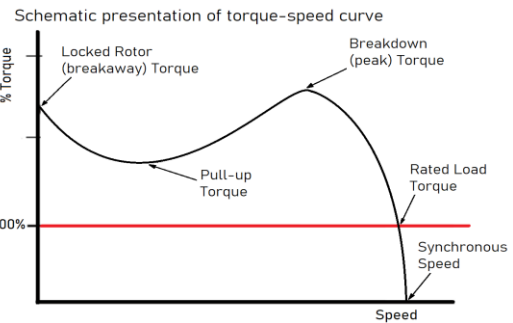
Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	270%	814%		350%	
@ D 460V 60Hz	250%	798%		330%	

**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

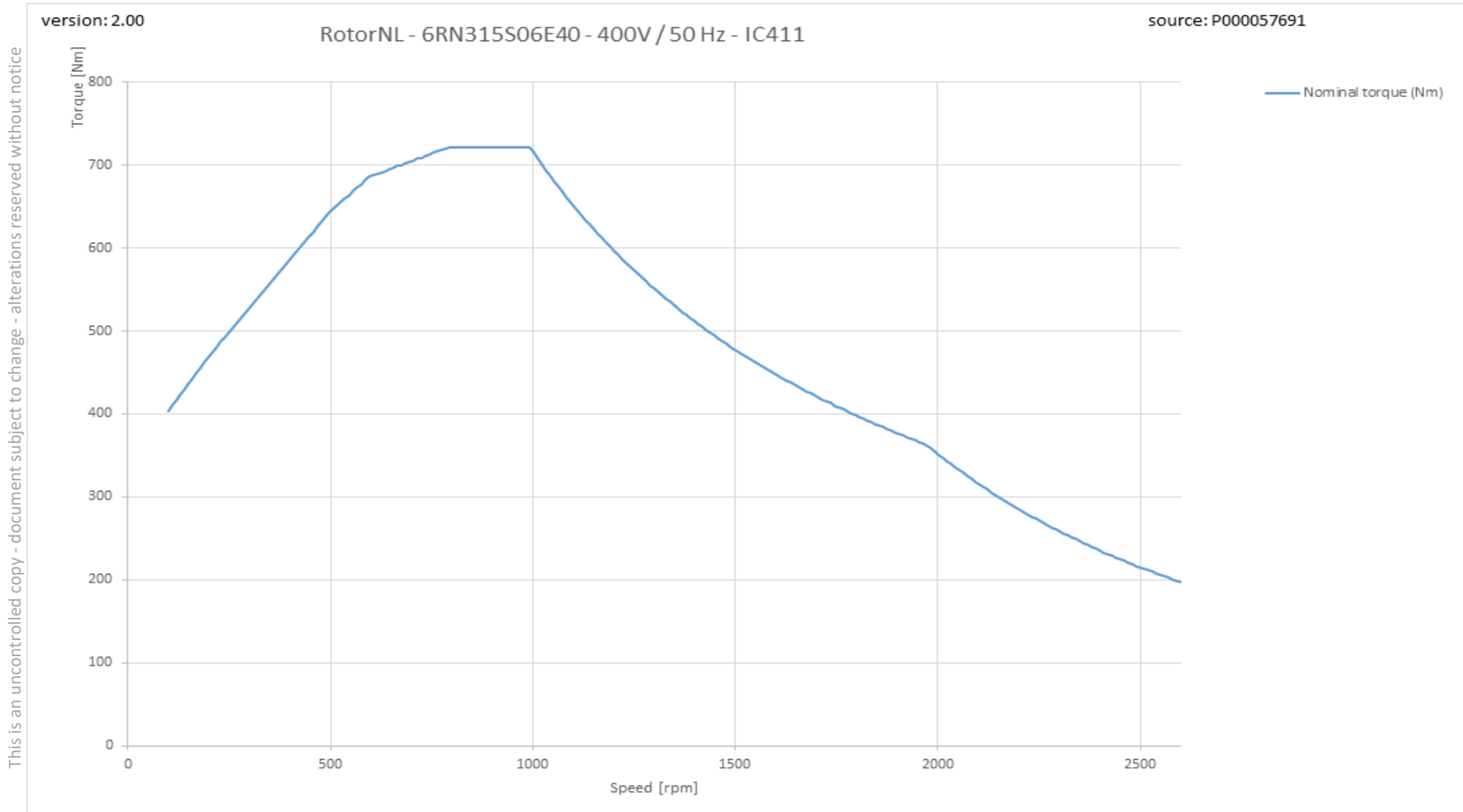
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6RN315S06E40 6-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



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