

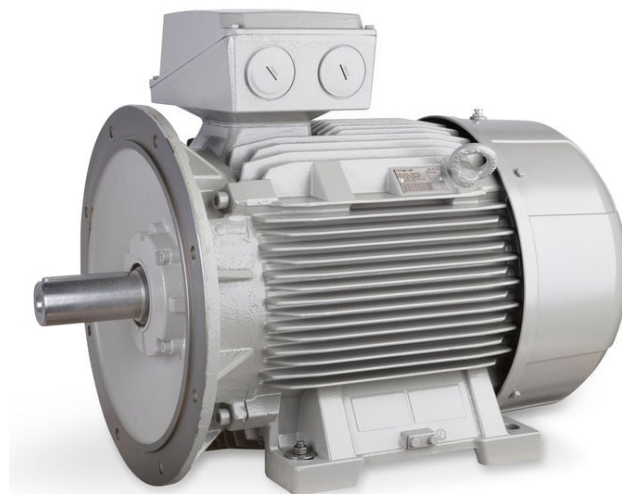
# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN315S08E30U46B2021

Catalog No: 6RN315S08E30U46B@2021

55.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz,  
315S Frame B35, IC411



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**Nameplate Specifications**

Output HP	75.00 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	106.00 A	Speed	740 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.81
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	8	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed

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Datasheet



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**Model No.** 8-Pole cage motor 6RN 315S 55kW 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	55	75	106	740	710	IE3	92,5			0,81			6,00	2,30	2,70
690	Y				62												
460	D	60	66	88,47	108	890	710	IE3	93,6			0,82			5,80	2,20	2,50

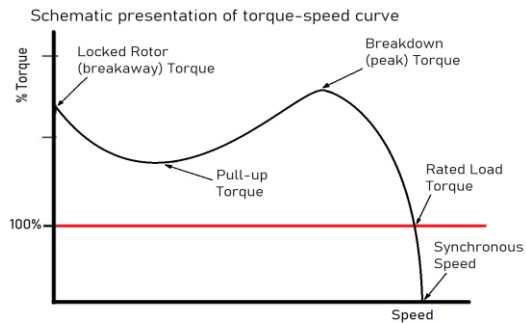
Motor type	<b>6RN315S08E30</b>	Degree of protection	<b>IP55</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>	Mounting type	<b>IM2021-FF600</b>
Frame Material	<b>Cast iron</b>	Cooling method	<b>IC411</b>
Frame size	<b>315S</b>	Motor weight - approx.	<b>960 kg</b>
Duty	<b>S1</b>	Gross weight - approx.	<b>990 kg</b>
Voltage	<b>400 V</b>	Motor inertia	<b>2,0000 kgm<sup>2</sup></b>
Frequency	<b>50 Hz</b>	Vibration level	<b>according IEC60034-14</b>
Power output	<b>55 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 surface			
Altitude above sea level	<b>1000 mtr</b>	Direction of rotation	<b>cw / ccw</b>
Hazardous area classification	<b>Safe area</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	230%	600%		270%	
@ D 460V 60Hz	220%	579%		250%	41,4 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



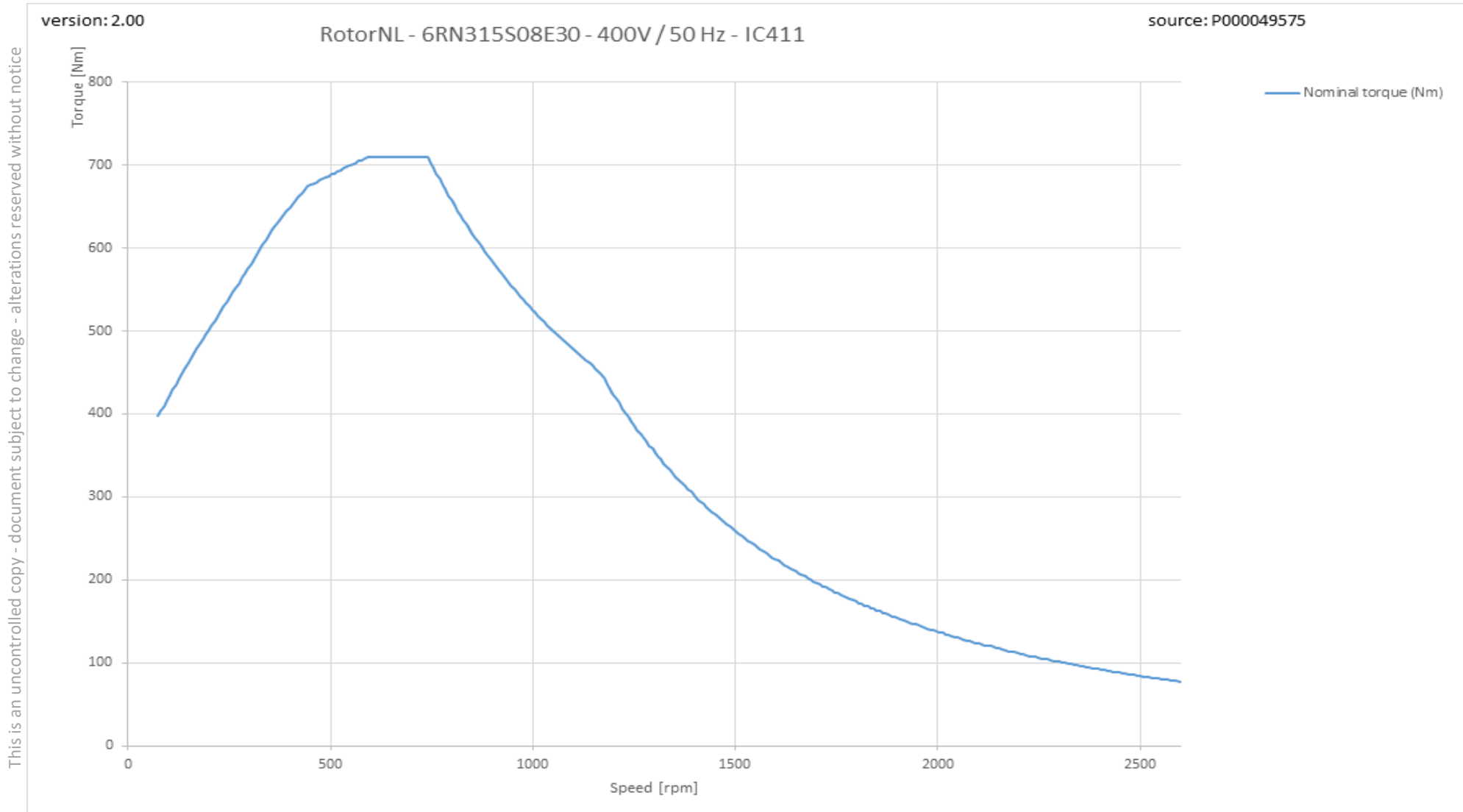
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6RN315S08E30 8-pole 55,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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