

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN315S06E40U463021

Catalog No: 6RN315S06E40U46@3021

75.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
315S Frame B5, 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	B5	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 IM3021-FF600

U (V)	Δ/Y Conn	f [Hz]	P		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]
			[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	6RN315S06E40	Degree of protection	IP55
Enclosure	Totally Enclosed Fan Cooling	Mounting type	IM3021-FF600
Frame Material	Cast iron	Cooling method	IC411
Frame size	315S	Motor weight - approx.	660 kg
Duty	S1	Gross weight - approx.	680 kg
Voltage	400 V		
Frequency	50 Hz		
Power output	75 kW	Vibration level	according IEC60034-14
Insulation class	F		
Ambient temperature	-20 till 40 °C		
Temperature rise	temp.rise acc. B (80K)		
Temperature rise surface		Direction of rotation	cw / ccw
Altitude above sea level	1000 mtr		
Hazardous area classification	Safe area		PTC 150°C

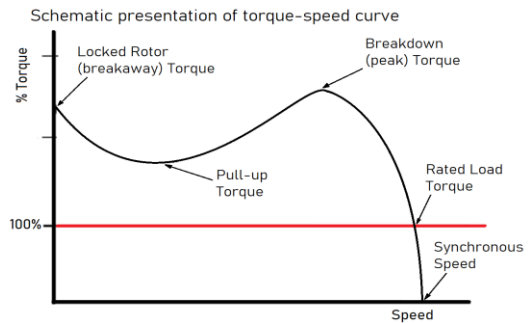
Rotor type	Cage motor
Bearing type	6319/C3
Lubrication method	40gr/6000hrs
Type of grease	Unirex N3
Country of origin	CZ

Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	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



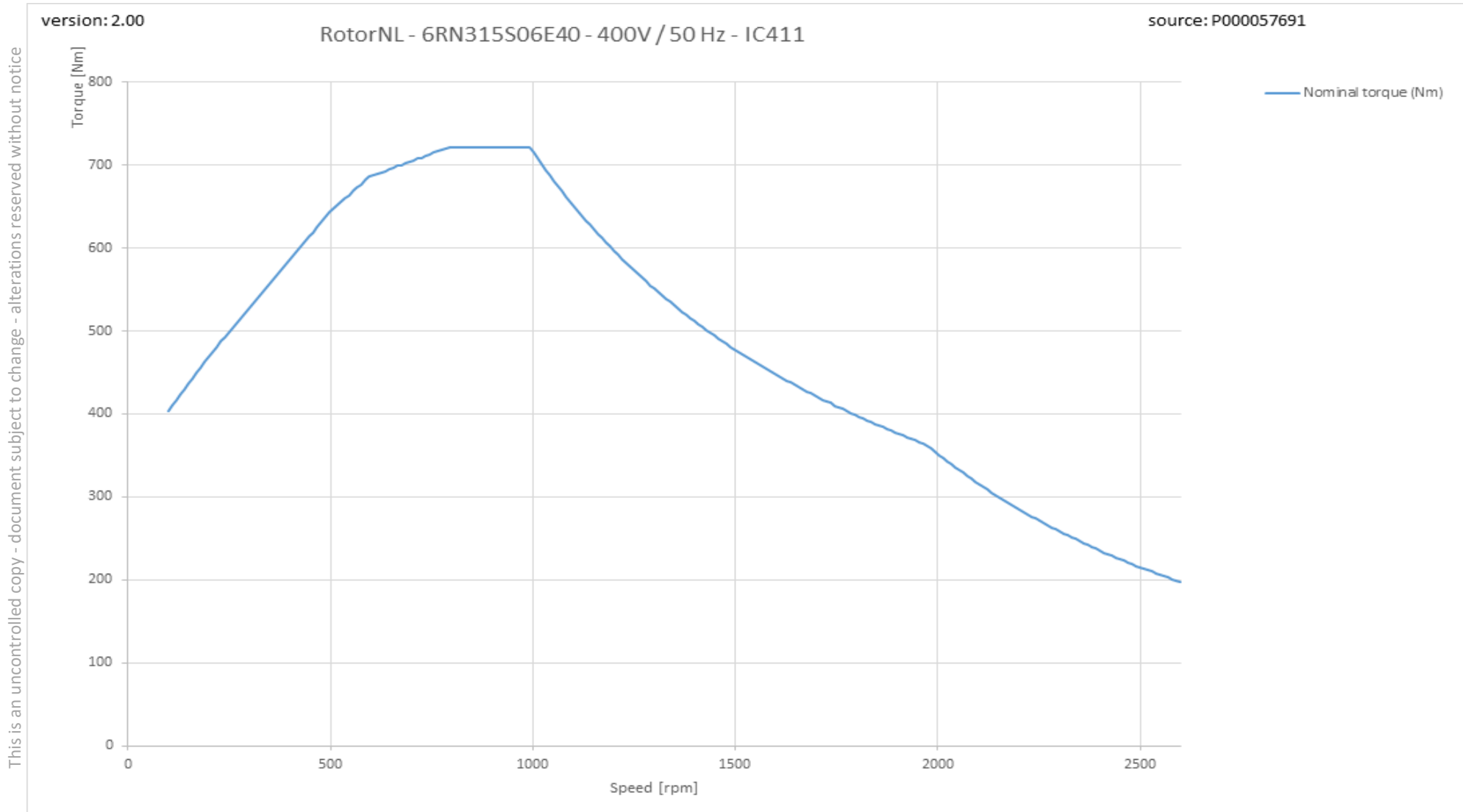
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6RN315S06E40 6-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



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