

PRODUCT INFORMATION PACKET



Model No: 6RN315S08E30U461041

Catalog No: 6RN315S08E30U46@1041

55.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz,
315S Frame B3, 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	B3	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 IM1041

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	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	6RN315S08E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315S
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	55 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area
Country of origin	CZ
Rotor type	Cage motor
Bearing type	6319/C3
Lubrication method	40gr/6000hrs
Type of grease	Unirex N3

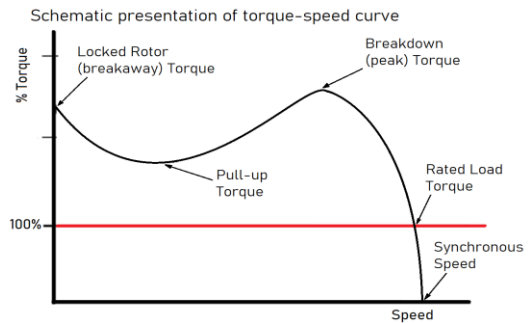
Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	960 kg
Gross weight - approx.	990 kg
Motor inertia	2,0000 kgm²
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw
	PTC 150°C

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



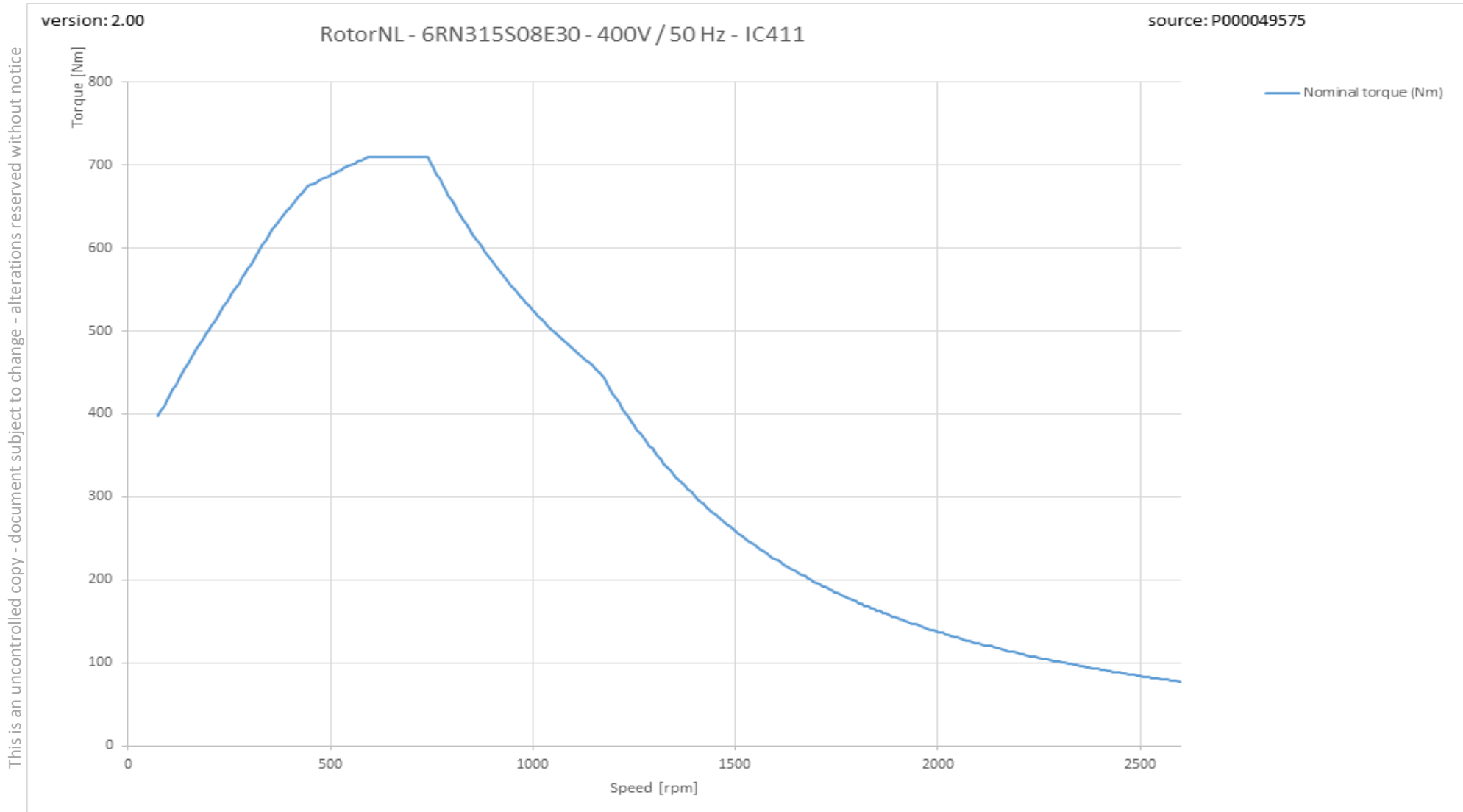
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6RN315S08E30 8-pole 55,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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