

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN280S08E30U463021

Catalog No: 6RN280S08E30U46@3021

37.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz,
280S Frame B5, IC411



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Nameplate Specifications

Output HP	50.00 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	75.00 A	Speed	736 rpm
Service Factor	1	Phase	3
Efficiency	91.8 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317/C3	Opp Drive End Bearing Size	6317/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	B5	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 280S 37kW D400V 50Hz IM3021-FF500

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	37	49,6	75	736	480	IE3	91,8	92,5	92,4	0,78	0,73	0,63	5,40	2,30	2,40
690	Y		43,5														
460	D	60	44,5	59,65	76	885	480	IE3	92,4	93,2	93,1	0,80	0,77	0,68	5,20	2,10	2,20

Motor type	6RN280S08E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280S
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	37 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

Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	470 kg
Gross weight - approx.	480 kg
Motor inertia	1,1000 kgm²
Vibration level	according IEC60034-14
Direction of rotation	cw /ccw

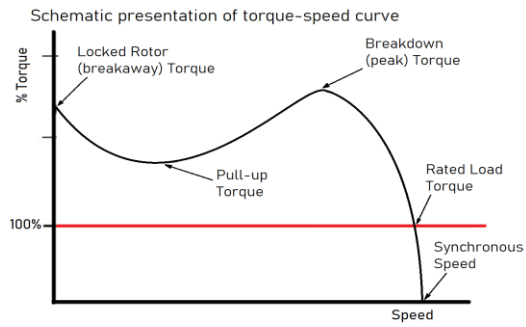
Rotor type	Cage motor
Bearing type	6317/C3
Lubrication method	30gr/8000hrs
Type of grease	Unirex N3

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	230%	540%		240%	
@ D 460V 60Hz	210%			220%	

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



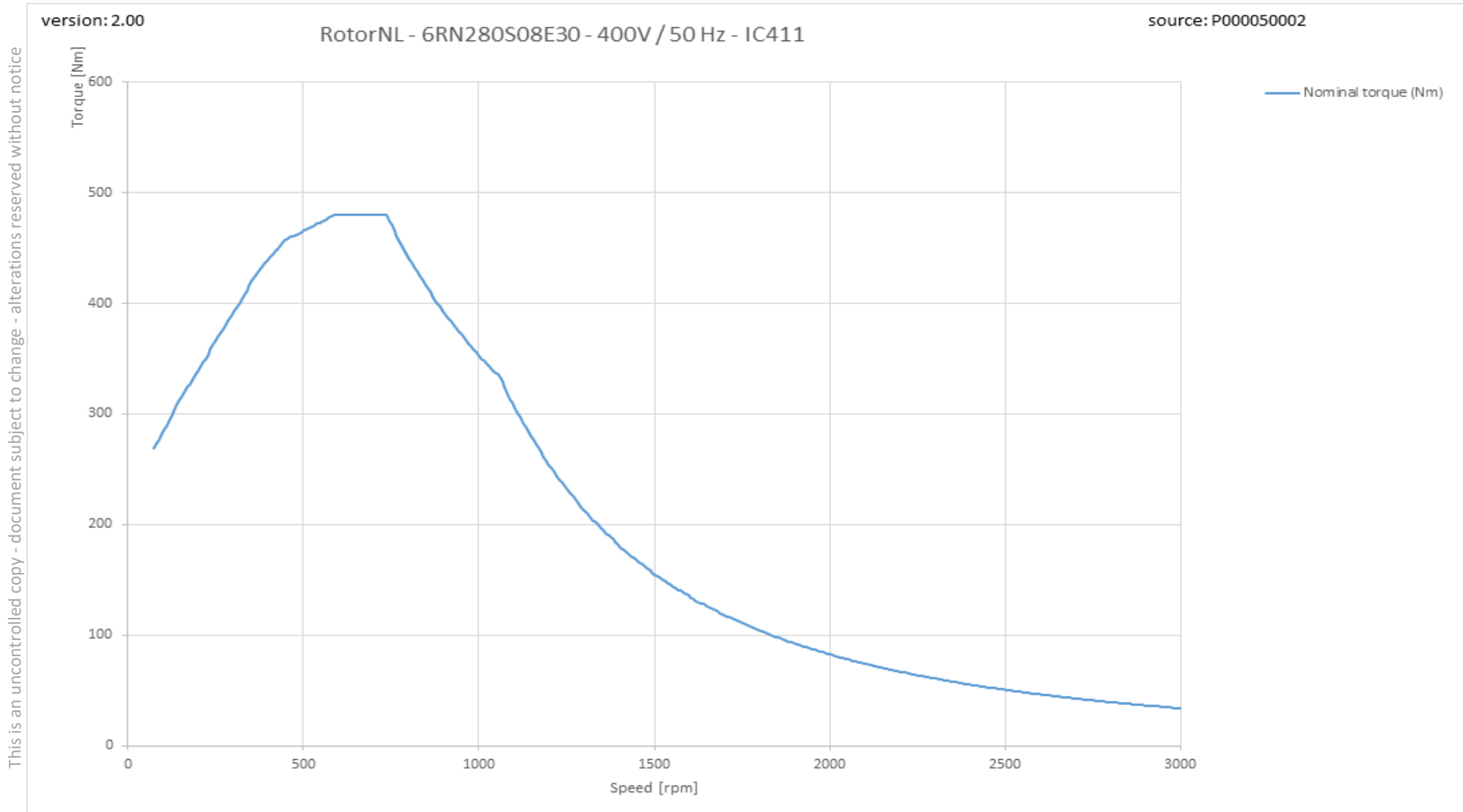
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6RN280S08E30 8-pole 37,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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