PRODUCT INFORMATION PACKET

Model No: 6RN280S04E40U463021 Catalog No: 6RN280S04E40U46@3021 75.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz, 280S 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	133.50 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	280S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
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Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6317/C3	Ambient Temperature Opp Drive End Bearing Size	40 °C 6317/C3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN280S04E40_3041		

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Datasheet

Model No. 4-Pole cage motor 6RN 280S 75kW D400V 50Hz IM3021-FF500

U	Δ/Υ	f	Р	Р	I	n	т	IE	% EF	Fat	load	PF	at _lo	ad	I_A/I_N	T_A/T_N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	D	50	75	100	133	1490	480	IE4	96,1	96,2	95,7	0,84	0,80	0,70	9,73	3,34	3,73
690	Y				76,7												
460	D	60	86	115,3	132	1788	459	IE4	96,3	96,2	95,6	0,85	0,81	0,72	9,63	3,29	3,56

Motor type	6RN280S04E40
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	2805
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	75 kW
Insulation class	F
Ambient temperature	- 20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	46 K
Temperature rise surface	22 К
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Cage motor
6317/C3
30gr/8000hrs
Unirex N3

Phase resistance at 20°C	0,0428 Ohm
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	334%	969%	277%	373%	51,9 A
@ D 460V 60Hz	329%	962%	260%	356%	48.5 A

N	0	ТΕ

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 dat	rotor		
Efficiency	Europe	Global IEC	ISO 9001
Standards	EN-IEC: 60034-30	IEC: 60034-30	certified
			company

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Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	680 kg
Gross weight - approx.	700 kg
Motor inertia	1,5000 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	69 dB(A)

Direction of rotation

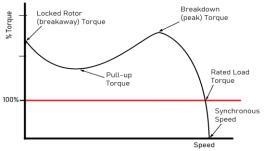
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POt⊙P B.V.

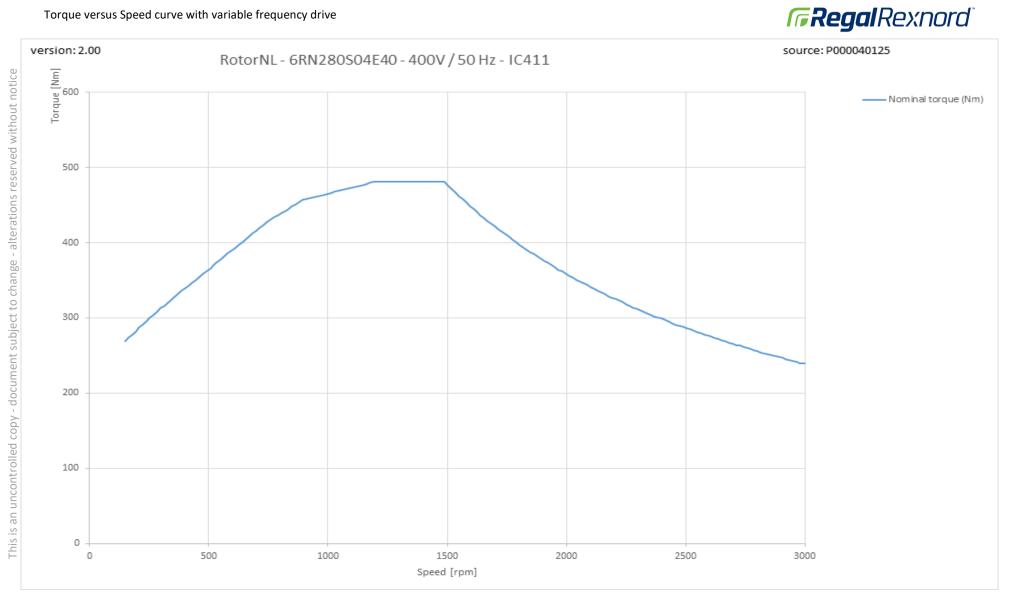
Mors 1-5, 7151 MX Eibergen NL www.rotor.nl tel.: +31 545 464640 sales@rotor.nl tel.: +31 545 464646

Schematic presentation of torque-speed curve



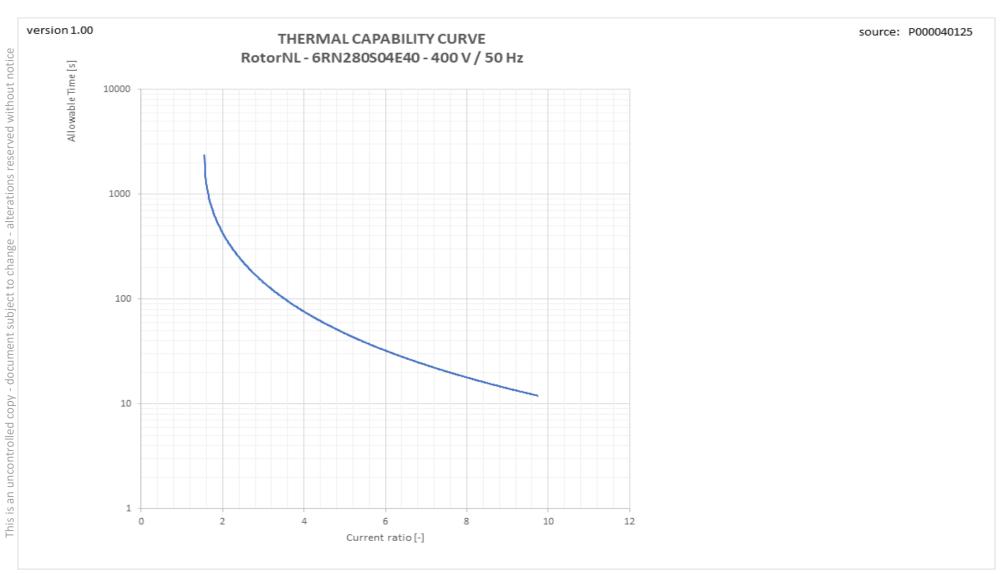
6RN280S04E40 4-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE4





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Therm_VSD graph



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Tn graph

