PRODUCT INFORMATION PACKET

rotor ni

Model No: 6RN280S04E30U463021 Catalog No: 6RN280S04E30U46@3021 75.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz, 280S Frame B5, IC411



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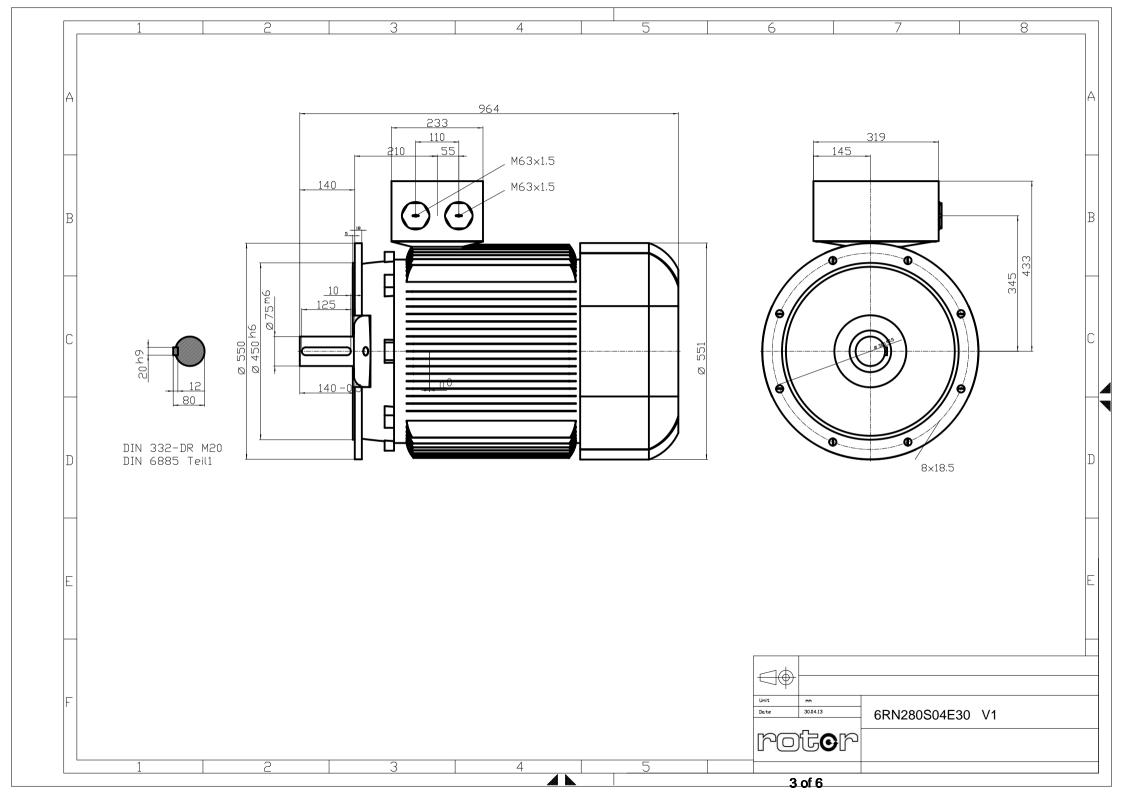
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW		
Frequency	50 Hz	Voltage	D400/Y690 V		
Current	132.80 A	Speed	1485 rpm		
Service Factor	1	Phase	3		
Efficiency	95 %	Power Factor	0.86		
Duty	S 1	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	4	Rotation	Clockwise Shaft End		
Mounting	B5	Motor Orientation	Any		
Frame Material	Cast iron	Shaft Type	Keyed		
Shaft Diameter	75 mm	Shaft Extension	140 mm		
Outline Drawing	6RN280S04E30U463021				

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Datasheet





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Model No.

4-Pole cage motor 6RN 280S 75kW D400V 50Hz IM3021-FF500

U	Δ/Υ	f	Р	Р	ı	n	T	IE	% EF	F at	load	PF	atlo	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	132	1485	482	IE3	94,9	95,2	94,9	0,86	0,83	0,74	7,18	2,32	2,92
690	Υ				77												
460	D	60	75	100	115	1788	400	IE3	95,4	95,3	94,4	0,85	0,82	0,72	8,12	2,69	3,21

Motor type	6RN280S04E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280\$
Duty	\$1
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	59 K
Temperature rise surface	29 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

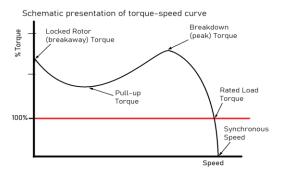
Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	570 kg
Gross weight - approx.	590 kg
Motor inertia	1,4000 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	65 dB(A)

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

Direction of rotation	cw/ccw

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	232%	721%	200%	292%	42,7 A
@ D 460V 60Hz	269%	816%	220%	321%	40 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





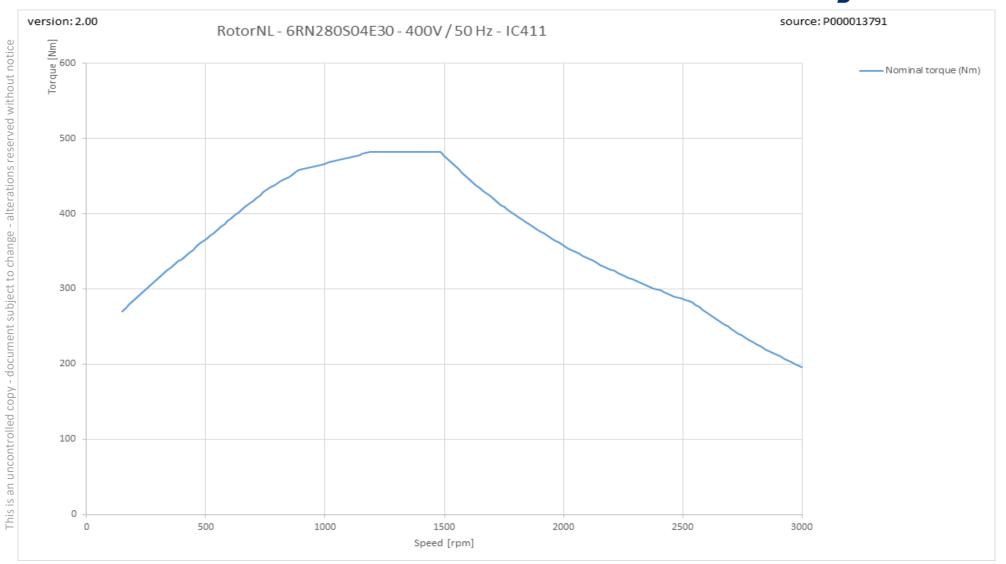
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6RN280S04E30 4-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive





Therm_VSD graph

