PRODUCT INFORMATION PACKET

rotor ni

Model No: 6RN280S02E30U461041 Catalog No: 6RN280S02E30U46@1041 75.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz, 280S Frame B3, IC411



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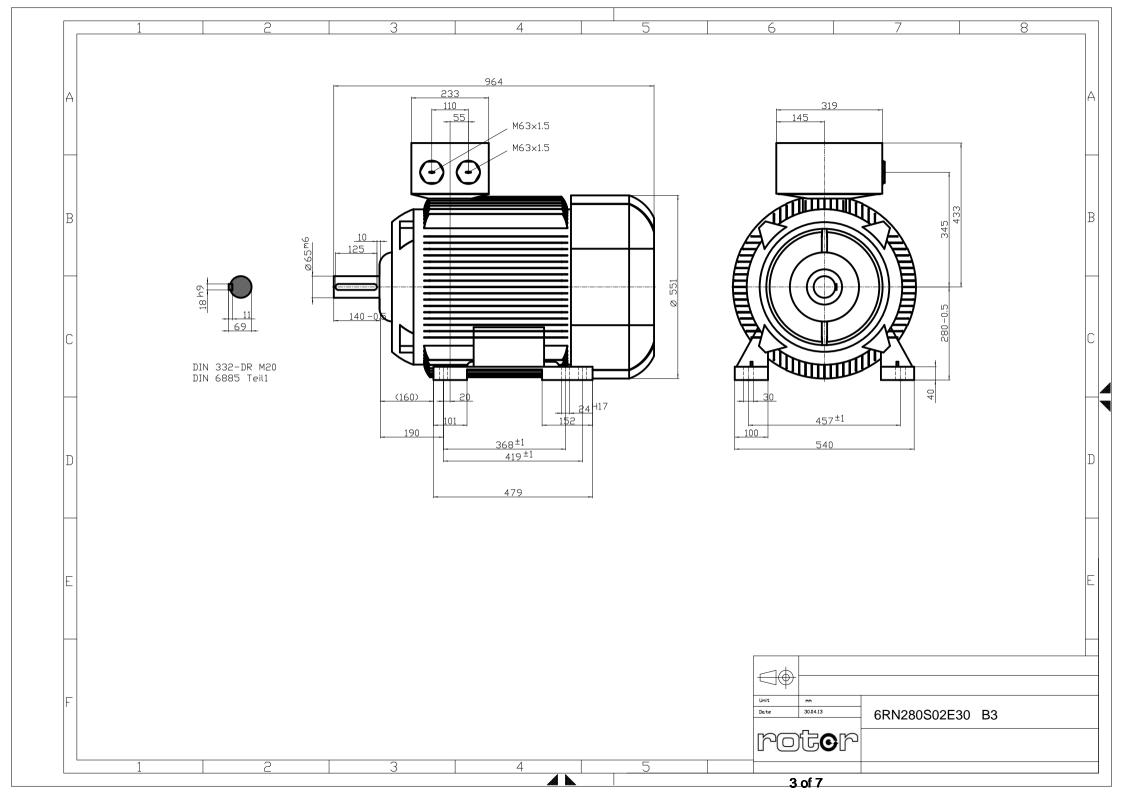
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW		
Frequency	50 Hz	Voltage	D400/Y690 V		
Current	129.70 A	Speed	2975 rpm		
Service Factor	1	Phase	3		
Efficiency	94.7 %	Power Factor	0.88		
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	6315/C3	Opp Drive End Bearing Size	6315/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	2	Rotation	Clockwise Shaft End	
Mounting	В3	Motor Orientation	Any	
Frame Material	Cast iron	Shaft Type	Keyed	
01 (10)	^-	01 (15)	4.40	
Shaft Diameter	65 mm	Shaft Extension	140 mm	

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Datasheet





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cw/ccw

Model No.

2-Pole cage motor 6RN 280S 75kW D400V 50Hz IM1041

U	Δ/Υ	f	Р	Р	I	n	Т	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	129	2975	240	IE3	94,4	94,5	93,8	0,88	0,86	0,80	7,10	2,20	2,93
690	Υ				74,9												
460	D	60	75	100	113	3578	200	IE3	94,4	94,2	93,0	0,88	0,86	0,79	7,92	2,59	3,22

Direction of rotation

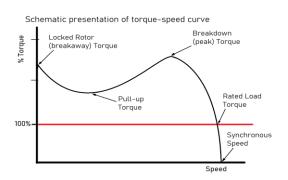
Motor type	6RN280S02E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280\$
Duty	\$1
Voltage	400 V
Frequency	50 Hz
Power output	75 kW
Insulation class	F
Ambient temperature	- 20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	74 K
Temperature rise surface	36 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	500 kg
Gross weight - approx.	520 kg
Motor inertia	0,7700 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	73 dB(A)

Rotor type	Cage motor
Bearing type	6315/C3
Lubrication method	25gr/4000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0601 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	220%	713%	180%	293%	36,4 A
@ D 460V 60Hz	259%	792%	210%	322%	33,1 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





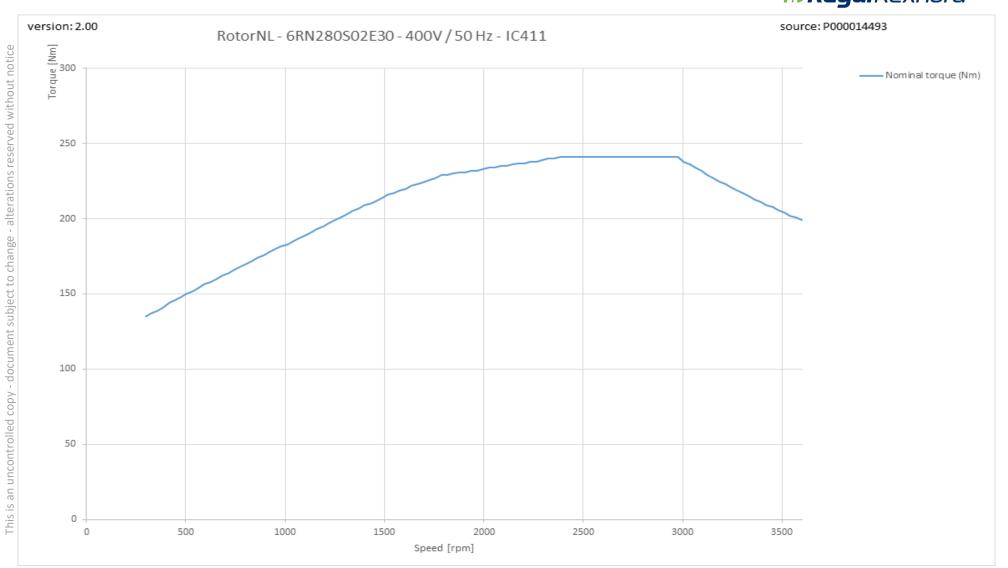
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6RN280S02E30 2-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE3



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Torque versus Speed curve with variable frequency drive



Therm_VSD graph

