# PRODUCT INFORMATION PACKET



Model No: 6RN280S06E40U463021 Catalog No: 6RN280S06E40U46@3021 45.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz, 280S Frame B5, IC411



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## Nameplate Specifications

Output HP	60.00 Hp	Output KW	45.0 kW	
Frequency	50 Hz	Voltage	D400/Y690 V	
Current	81.00 A	Speed	990 rpm	
Service Factor	1	Phase	3	
Efficiency	94.8 %	Power Factor	0.85	
Duty	<b>S</b> 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	6	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. 6-Pole cage m

Hazardous area classification

6-Pole cage motor 6RN 280S 45kW D400V 50Hz IM3021-FF500

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EI	FF at	load	PF	atlo	ad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</sub>	
(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	45	60,32	81	990	434	IE4	94,8			0,85			8,80	2,50	3,20	
690	Υ				46,7													
460	D	60	45	60,32				IE3						,				

Safe area

Motor type	6RN280S06E40
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	Cast iron
Frame size	280\$
Duty	\$1
Voltage	<b>400</b> ∨
Frequency	<b>50</b> Hz
Power output	<b>45</b> kW
Insulation class	F
Ambient temperature	- <b>20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise surface	
Altitude above sea level	<b>1000</b> mtr

Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	<b>510</b> kg
Gross weight - approx.	<b>530</b> kg

ing IEC60034-14

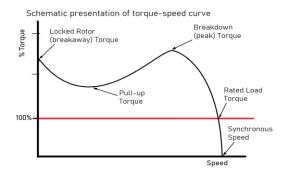
Rotor type	Cage motor
Bearing type	6317/C3

Bearing type6317/C3Lubrication method30gr/8000hrsType of greaseUnirex 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	250%	879%		320%	
@ D 460V 60Hz					



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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### 6RN280S06E40 6-pole 45,00kW D/Y 400/690V 50Hz S1 IC411 IE4



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Torque versus Speed curve with variable frequency drive

