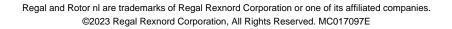
PRODUCT INFORMATION PACKET



Model No: 6RN280S06E40U461041 Catalog No: 6RN280S06E40U46@1041 45.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz, 280S Frame B3, IC411









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	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	6	Rotation	Clockwise Shaft End
Mounting	В3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed

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Datasheet





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

Model No.

6-Pole cage motor 6RN 280S 45kW D400V 50Hz IM1041

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EFF at load	PF atload	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	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					

Motor type	6RN280S06E40
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280S
Duty	\$1
Voltage	400 V
Frequency	50 Hz
Power output	45 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

Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	510 kg
Gross weight - approx.	530 kg

Vibration level	according IEC60034-14

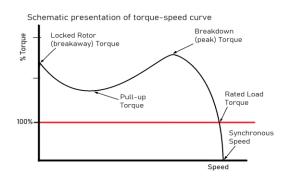
Hazardous area classification	Safe area	

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

	Locked rotor Torque [%	Starting current	Pull-up Torque	Breakdown Torque	No-load Current
Voltage/Freq	nom]	[% nom]	[% nom]	[% nom]	[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

