PRODUCT INFORMATION PACKET

Model No: 6RN225S08E30U46B2021 Catalog No: 6RN225S08E30U46B@2021 18.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz, 225S Frame B35, IC411



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Nameplate Specifications

Output HP	25.00 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	39.50 A	Speed	732 rpm
Service Factor	1	Phase	3
Efficiency	90.1 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6313/C3	Ambient Temperature Opp Drive End Bearing Size	40 °C 6313/C3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	8	Rotation	Clockwise Shaft End		
Mounting	B35	Motor Orientation	Any		
Frame Material	Cast iron	Shaft Type	Keyed		

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Datasheet

rotor B.V.

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Model No. 8-Pole cage motor 6RN 225S 18,5kW D400V 50Hz IM2021-FF400

U	Δ/Υ	f	Р	Р	Ι	n	т	IE	% EI	F at	load	PF	at _lo	ad	I _A /I _N	T_A/T_N	T _κ /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	18,5	24,8	39,5	732	241	IE3	90,1	90,6	90,0	0,75	0,68	0,56	5,90	2,50	3,00
690	Y																

Motor type	6RN225S08E30	C
Enclosure	Totally Enclosed Fan Cooling	Ν
Frame Material	Cast iron	С
Frame size	2255	Ν
Duty	S1	G
Voltage	400 V	N
Frequency	50 Hz	
Power output	18,5 kW	V
Insulation class	F	
Ambient temperature	-20 till 40 °C	
Temperature rise	temp.rise acc. B (80K)	
Temperature rise surface		D
Altitude above sea level	1000 mtr	
Hazardous area classification	Safe area	
Rotor type	Cage motor	
Bearing type	6313/C3	
Lubrication method	22gr/16000hrs	

Degree of protection	IP55
Mounting type	IM2021-FF400
Cooling method	IC411
Motor weight - approx.	280 kg
Gross weight - approx.	290 kg
Motor inertia	0,5000 kgm²

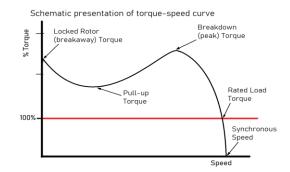
Vibration level

Direction of rotation

cw /ccw

*FRegal*Rexnord[®]

according IEC60034-14



NOTE

Type of grease

Country of origin

Voltage/Freq

@ D 400V 50Hz

All performance values at rated voltage and frequency.

Locked rotor

nom]

250%

[%

Torque

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Starting

current

[% nom]

589%

Pull-up

Torque

[% nom]

Voltage, Frequency are as per IEC60034-1

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

Unirex N3

Breakdown

Torque

[% nom]

300%

cz

No-load

Current

[A]

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6RN225S08E30 8-pole 18,50kW D/Y 400/690V 50Hz S1 IC411 IE3

Torque versus Speed curve with variable frequency drive

