

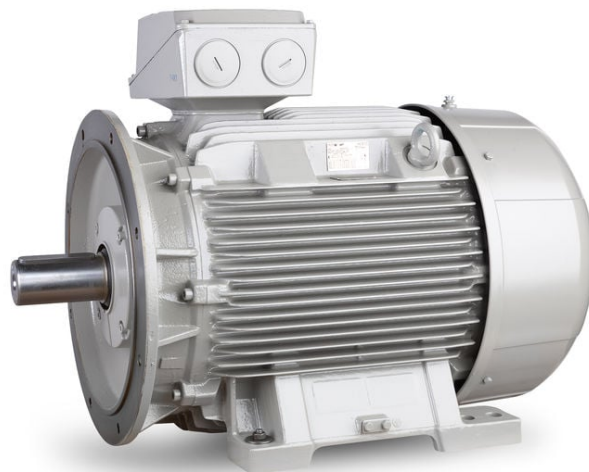
PRODUCT INFORMATION PACKET



Model No: 6RN280M08E32U46B2021-Uni

Catalog No: 6RN280M08E32U46B@2021-Uni

45.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz,
280M Frame B35, IC411



Regal and Rotor nl are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

Output HP	60.00 Hp	Output KW	45.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	88.00 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	92.2 %	Power Factor	0.80
Duty	S1	Insulation Class	F
Frame	280M	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	8	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN280M08E32_2021		

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022

Model No. 8-Pole cage motor 6RN 280M 45kW D400V 50Hz IM2021-FF500

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __ load FL 3/4FL 1/2FL	I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
400	D	50	45	60	88	738	582	IE3	92,2 92,8 92,6	0,80 0,76 0,67	5,90	2,50	2,50
690	Y				50,8								

Motor type	6RN280M08E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280M
Duty	S1
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
Hazardous area classification	Safe area

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

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%	589%		250%	

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

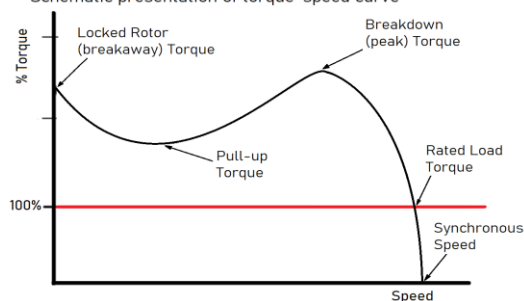
Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

Degree of protection	IP55
Mounting type	IM2021-FF500
Cooling method	IC411
Motor weight - approx.	520 kg
Gross weight - approx.	540 kg
Motor inertia	1,4000 kgm ²
Vibration level	according IEC60034-14

Direction of rotation	cw / ccw
-----------------------	----------

Schematic presentation of torque-speed curve



rotor
is a
ISO 9001
certified
company

RegalRexnord

This is an uncontrolled copy, data can be changed anytime.

6RN280M08E32 8-pole 45,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive

