

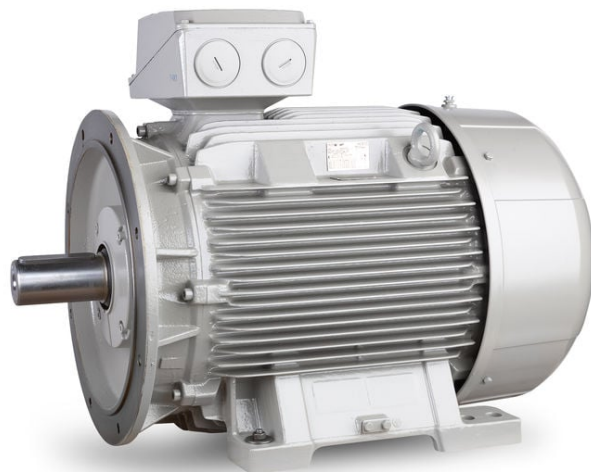
# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN280M08E32U46B2021

Catalog No: 6RN280M08E32U46B@2021

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



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**Nameplate Specifications**

Output HP	<b>60.00 Hp</b>	Output KW	<b>45.0 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>D400/Y690 V</b>
Current	<b>88.00 A</b>	Speed	<b>738 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>92.2 %</b>	Power Factor	<b>0.80</b>
Duty	<b>S1</b>	Insulation Class	<b>F</b>
Frame	<b>280M</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6317/C3</b>	Opp Drive End Bearing Size	<b>6317/C3</b>
UL	<b>No</b>	CSA	<b>Optional</b>
CE	<b>Yes</b>	IP Code	<b>IP55</b>
Number of Speeds	<b>1</b>	Efficiency Class	<b>IE3</b>

**Technical Specifications**

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

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Datasheet



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

U (V)	Δ/Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>R</sub> /T <sub>N</sub> [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	45	60,32	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	<b>6RN280M08E32</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>280M</b>
Duty	<b>S1</b>
Voltage	<b>400 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>45 kW</b>
Insulation class	<b>F</b>
Ambient temperature	<b>-20 till 40 °C</b>
Temperature rise	<b>temp.rise acc. B (80K)</b>
Temperature rise surface	
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

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

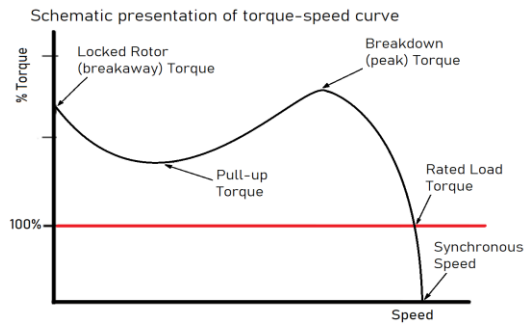
Country of origin **CZ**

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	<b>IP55</b>
Mounting type	<b>IM2021-FF500</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>520 kg</b>
Gross weight - approx.	<b>540 kg</b>
Motor inertia	<b>1,4000 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>
Direction of rotation	<b>cw /ccw</b>



V2.07

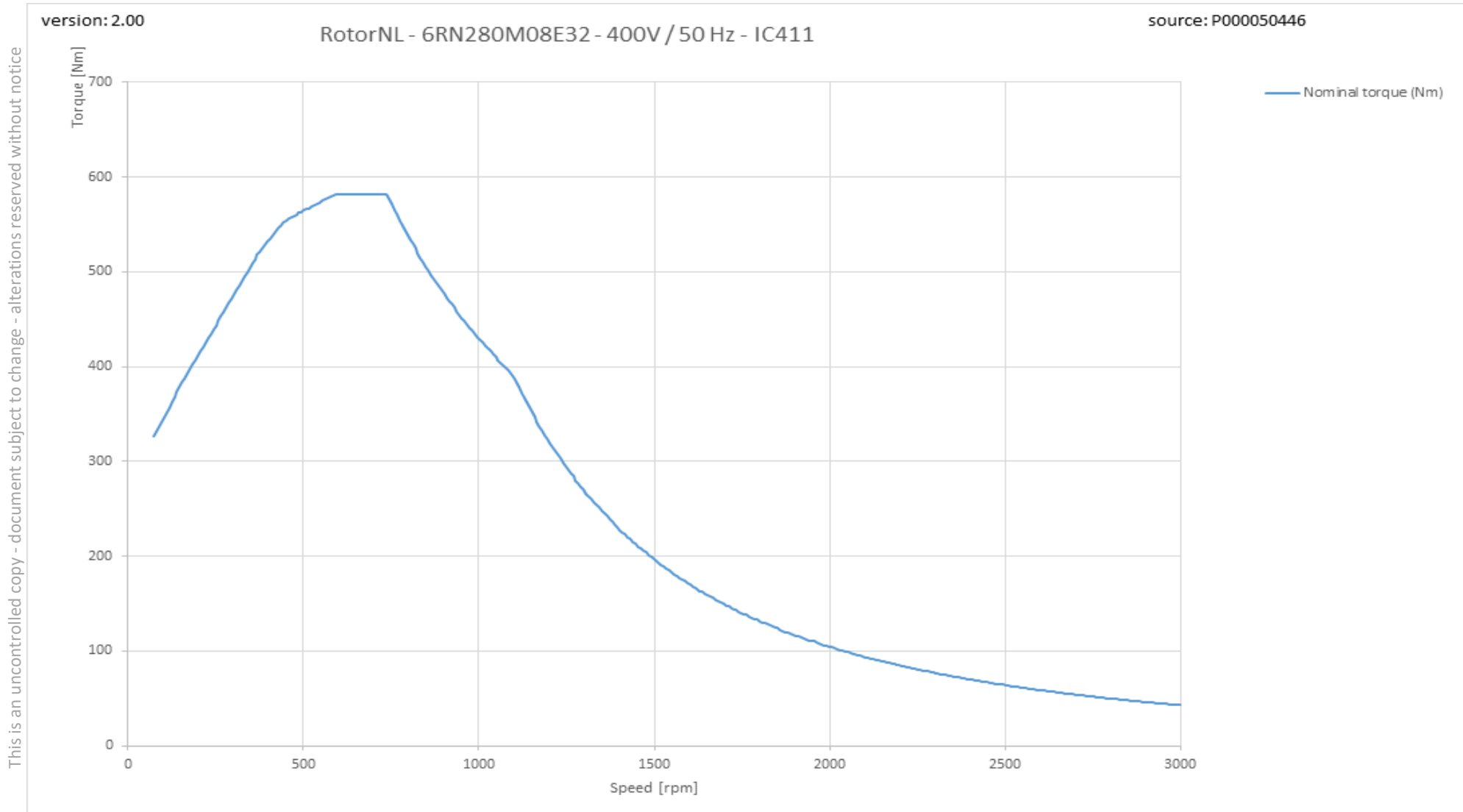
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6RN280M08E32 8-pole 45,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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