

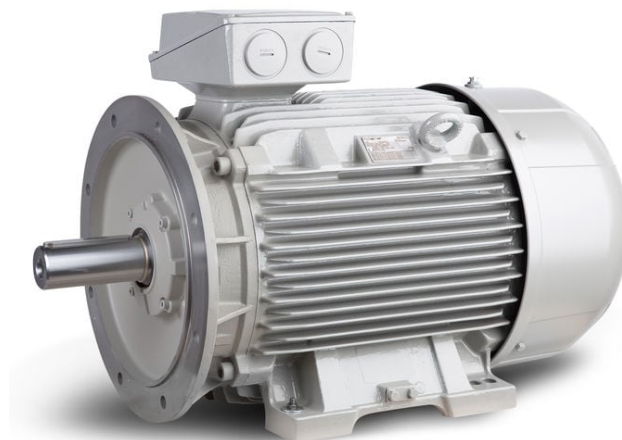
# PRODUCT INFORMATION PACKET



Model No: 6RN225M02E36U46B2021

Catalog No: 6RN225M02E36U46B@2021

55.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,  
225M Frame B35, IC411



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## Nameplate Specifications

Output HP	75.00 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	94.00 A	Speed	2965 rpm
Service Factor	1	Phase	3
Efficiency	94.3 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313/C3	Opp Drive End Bearing Size	6313/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	2	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN225M02E36_2041		

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## Datasheet

rotor nl®

rotor B.V.

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

**Model No.** 2-Pole cage motor 6RN 225M 55kW D400V 50Hz IM2021-FF400

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 <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>K</sub> /T <sub>N</sub> [pu]
400	D	50	55	75	94	2965	177	IE3	94,3	0,90	8,20	3,10	3,70
690	Y				55								
460	D	60	62	83,11	92	3565	166	IE3	93,6	0,90	8,60	3,10	3,70

Motor type	6RN225M02E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	225M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	55 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	6313/C3
Lubrication method	22gr/4000hrs
Type of grease	Unirex N3

Country of origin	CZ
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	310%	819%		370%	
@ D 460V 60Hz	310%	859%		370%	

## 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

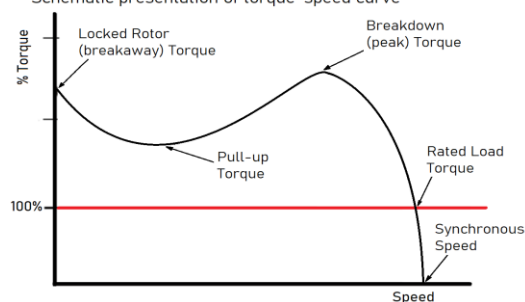
Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM2021-FF400
Cooling method	IC411
Motor weight - approx.	390 kg
Gross weight - approx.	400 kg
Motor inertia	0,3100 kgm <sup>2</sup>
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw

Schematic presentation of torque-speed curve



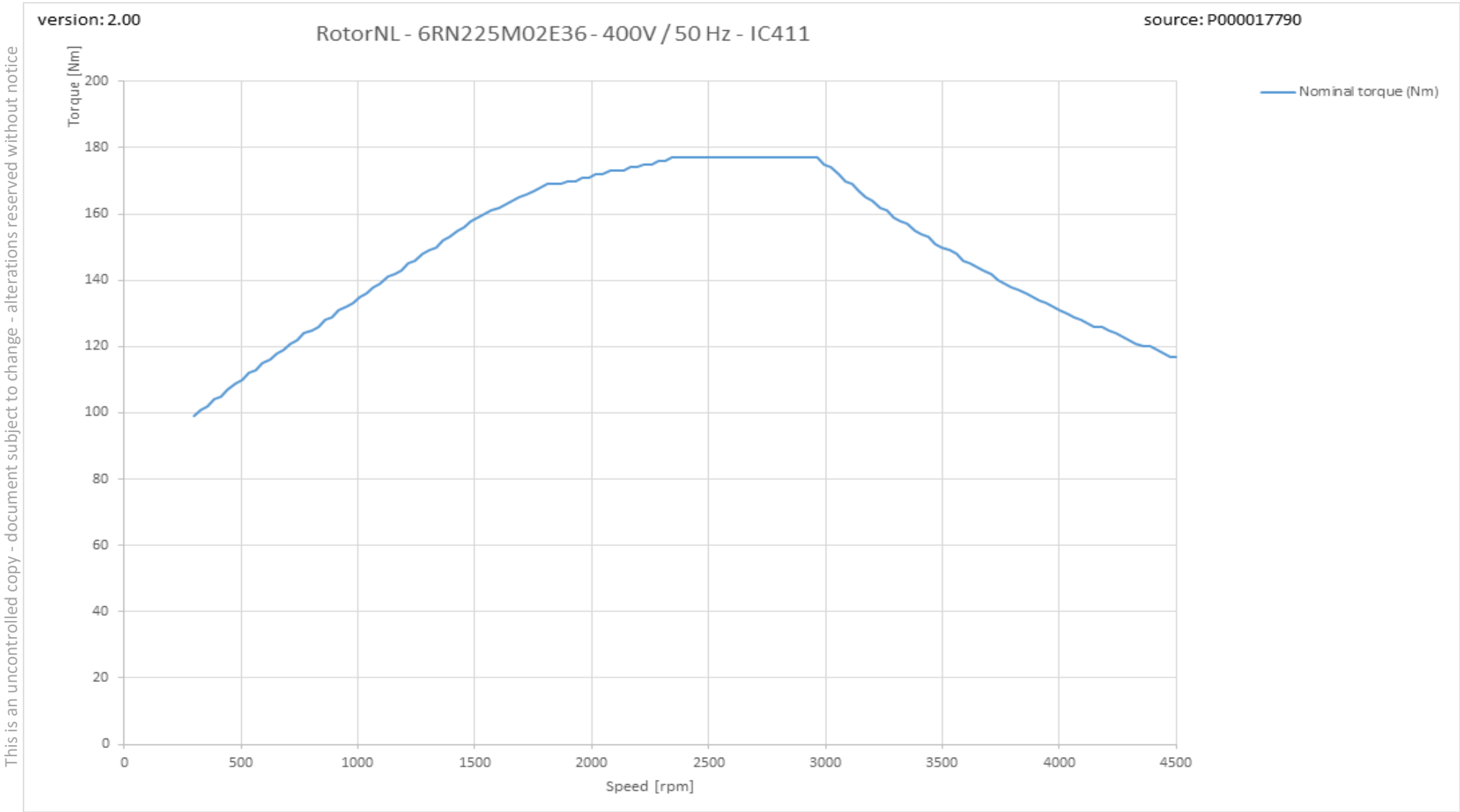
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6RN225M02E36 2-pole 55,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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