

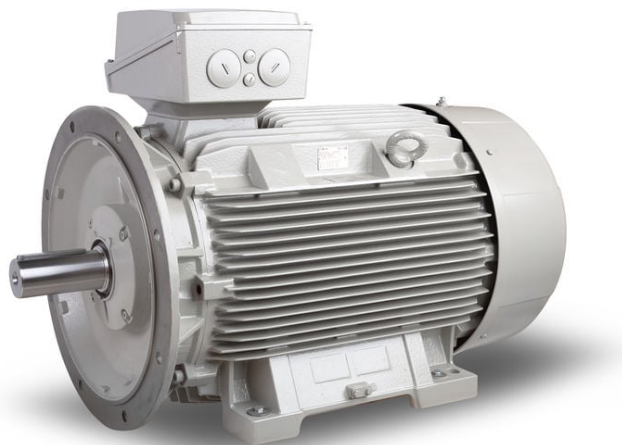
PRODUCT INFORMATION PACKET



Model No: 6RN225M02E36U463021

Catalog No: 6RN225M02E36U46@3021

55.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,
225M Frame B5, IC411



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Nameplate Specifications

Output HP	75 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	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN225M02E36U463021		

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Datasheet

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Model No. 2-Pole cage motor 6RN 225M 55kW D400V 50Hz IM3021-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 _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [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**

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.

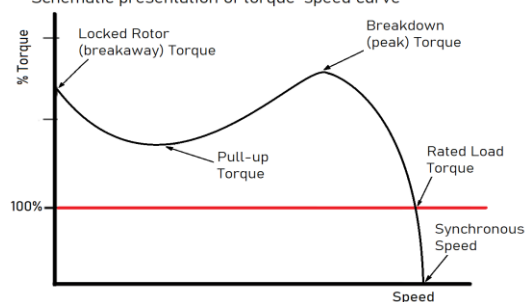
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

Degree of protection **IP55**
 Mounting type **IM3021-FF400**
 Cooling method **IC411**
 Motor weight - approx. **380 kg**
 Gross weight - approx. **390 kg**
 Motor inertia **0,3100 kgm²**

Vibration level **according IEC60034-14**

Direction of rotation **cw / ccw**

Schematic presentation of torque-speed curve



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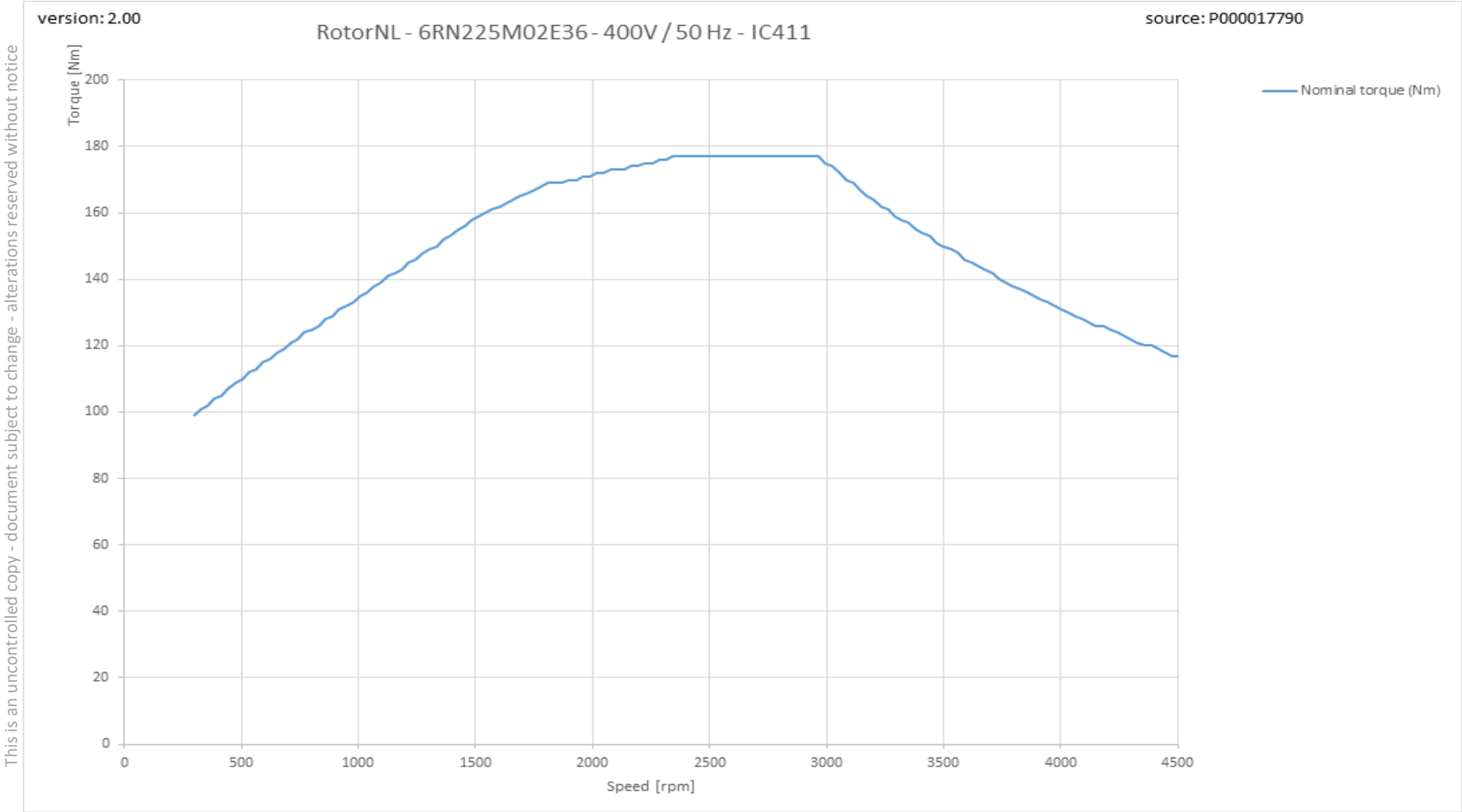
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6RN225M02E36 2-pole 55,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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