

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN225M04E42U241041

Catalog No: 6RN225M04E42U24@1041

45.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D230/Y400V 50Hz,
225M Frame B3, IC411

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Nameplate Specifications

Output HP	60.00 Hp	Output KW	45.0 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	140.94 A	Speed	1485 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	0.84
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	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed

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Datasheet



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Model No. 4-Pole cage motor 6RN 225M 45kW D230V 50Hz IM1041

U (V)	Δ / Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I _A /I _N [pu]	T _A /T _N [pu]	T _R /T _N [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	45	60,32	141	1485	289	IE4	95,3	95,6	95,3	0,84	0,80	0,69	8,43	3,35	3,28
400	Y				81,4												
265	D	60	52	69,71	140	1785	278	IE3	95,5	95,7	95,3	0,85	0,81	0,71	8,56	3,25	3,15
460	Y				81,2												

Motor type	6RN225M04E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	225M
Duty	S1
Voltage	230 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 winding	45 K
Temperature rise surface	27 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	420 kg
Gross weight - approx.	430 kg
Motor inertia	0,6600 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	64 dB(A)

Rotor type	Cage motor
Bearing type	6313/C3
Lubrication method	22gr/10200hrs
Type of grease	Unirex N3

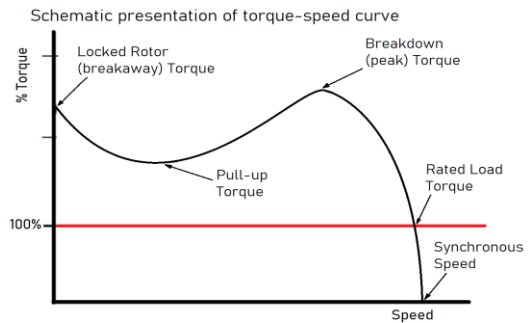
Country of origin **CZ**

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	335%	836%	285%	328%	53,5 A
@ D 265V 60Hz	325%	857%	271%	315%	50,8 A

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



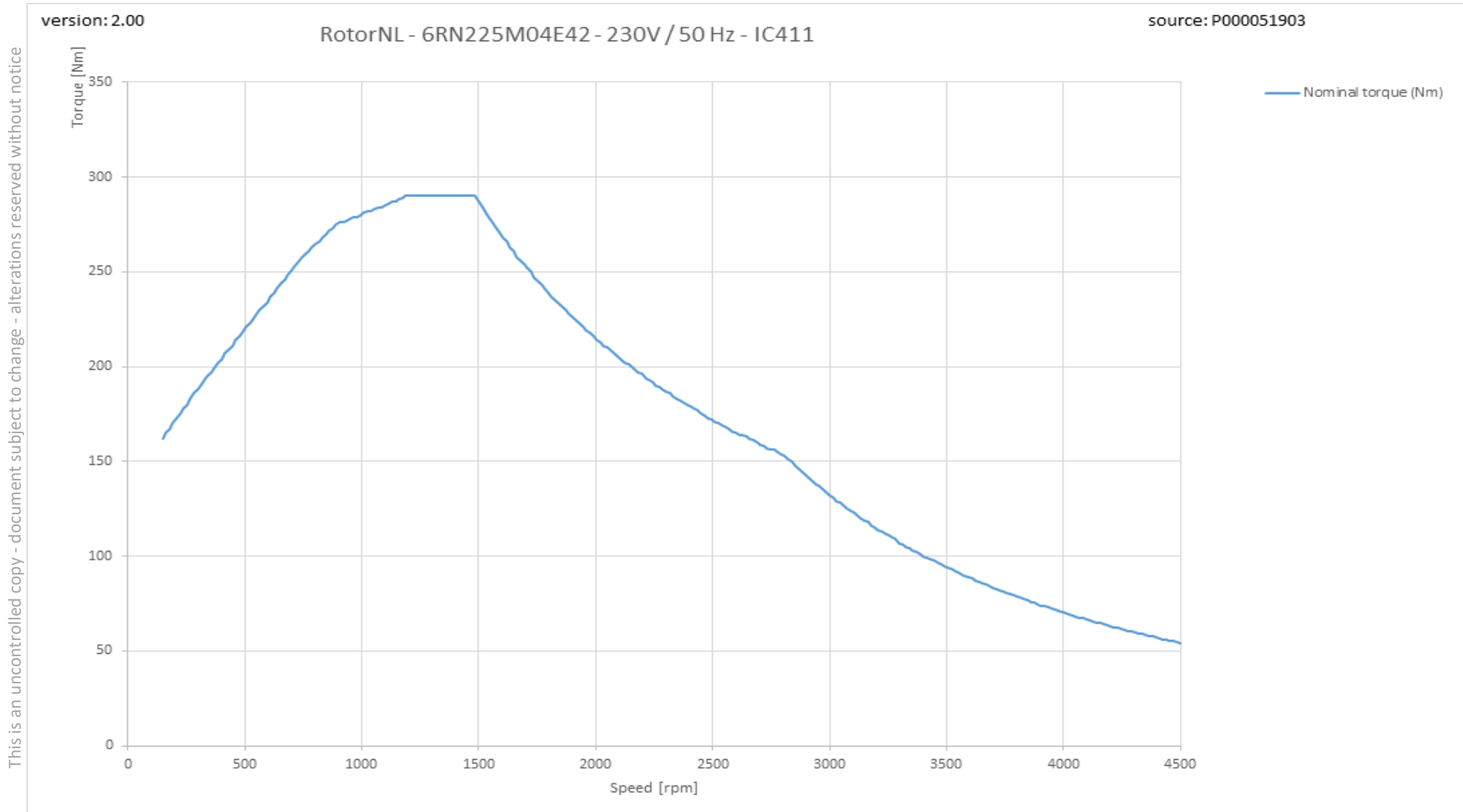
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6RN225M04E42 4-pole 45,00kW D/Y 230/400V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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