

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN200L06E45U461041

Catalog No: 6RN200L06E45U46@1041

22.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
200L Frame B3, IC411



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Nameplate Specifications

Output HP	30.00 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	43.50 A	Speed	980 rpm
Service Factor	1	Phase	3
Efficiency	93.7 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6312-2Z/C3WT (-40°C/+160°C)
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	6	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. 6-Pole cage motor 6RN 200L 22kW D400V 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			
400	D	50	22	30	43,5	980	214	IE4	93,7			0,78			7,10	2,90	3,00
690	Y				25,1												
460	D	60	22	30	38,3	1185	177	IE4	94,8			0,76			8,27	3,19	3,36

Motor type	6RN200L06E45
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	200L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	22 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	50 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6312-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	0,2545 Ohm
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	290%	708%		300%	19,5 A
@ D 460V 60Hz	319%	827%		336%	18,5 A

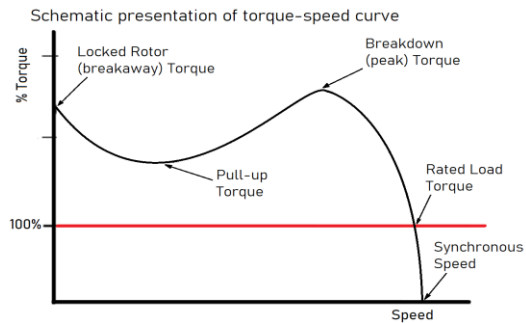
NOTE

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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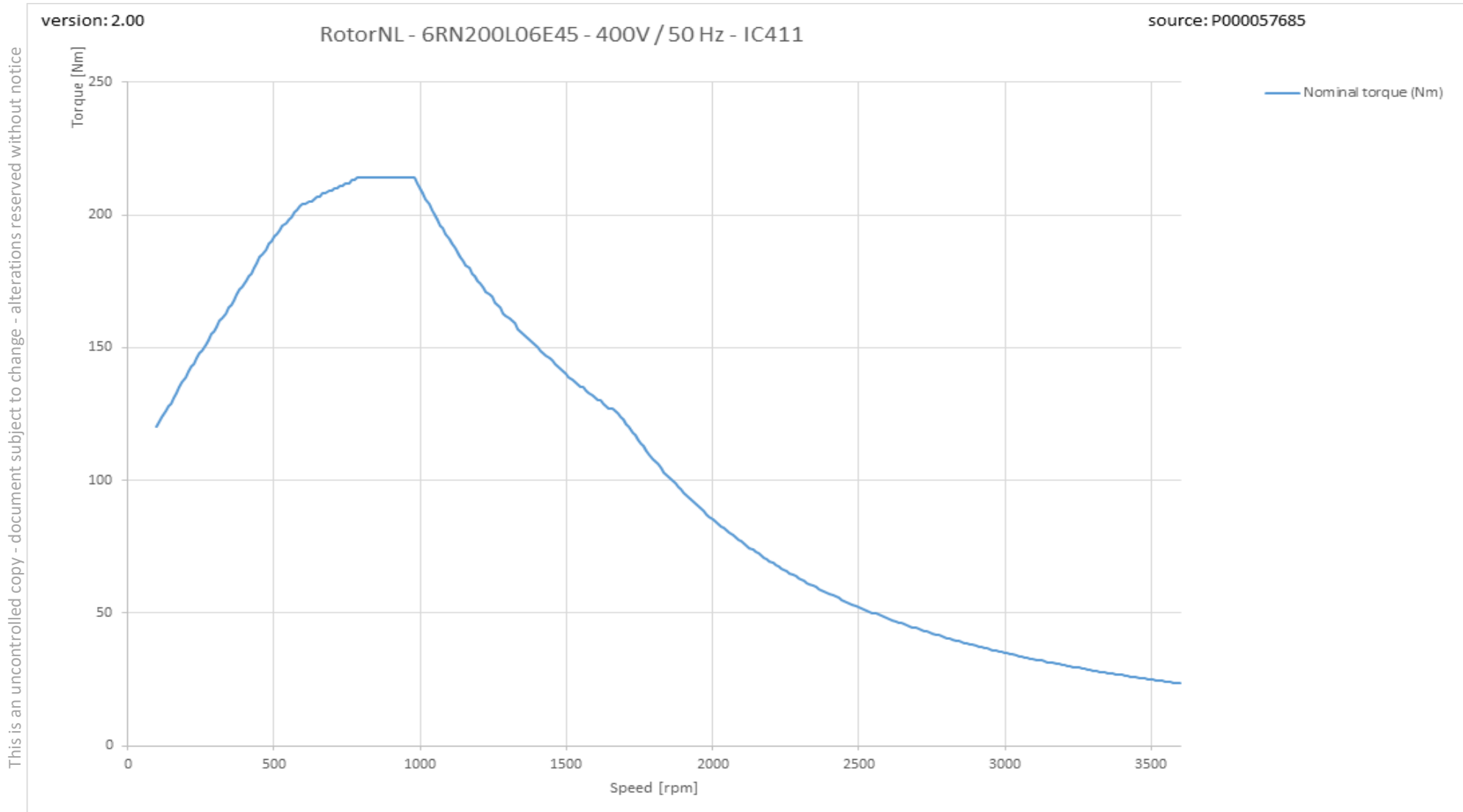
Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	270 kg
Gross weight - approx.	280 kg
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw



6RN200L06E45 6-pole 22,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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