

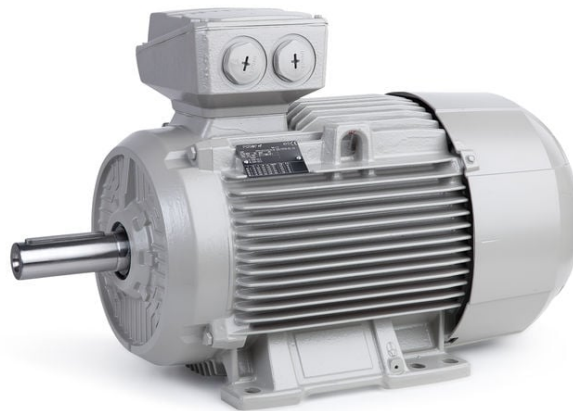
PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN160M08E33U461081

Catalog No: 6RN160M08E33U46@1081

5.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz,
160M Frame B3, IC411



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Nameplate Specifications

Efficiency Class

IE3

Technical Specifications

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Datasheet



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Model No. 8-Pole cage motor 6RN 160M 5,5kW D400V 50Hz IM1081

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	5,5	7 1/3	14	730	72	IE3	86,2			0,66			3,80	1,60	1,90
690	Y				8,1												
460	D	60	6,3	8,445	13,6	880	68	IE3	86,5			0,67			3,90	1,70	1,90

Motor type	6RN160M08E33
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	5,5 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	6309-2Z/C3WT
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	160%	380%		190%	
@ D 460V 60Hz	170%	389%		190%	

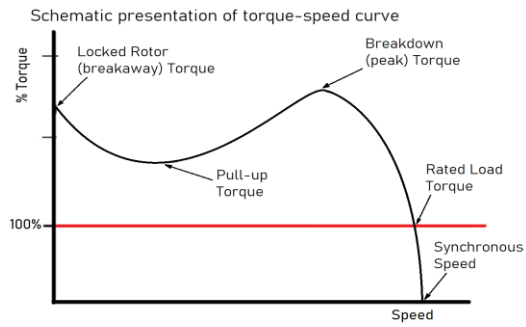
NOTE
 All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	108 kg
Gross weight - approx.	111 kg
Motor inertia	0,0830 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	65 dB(A)

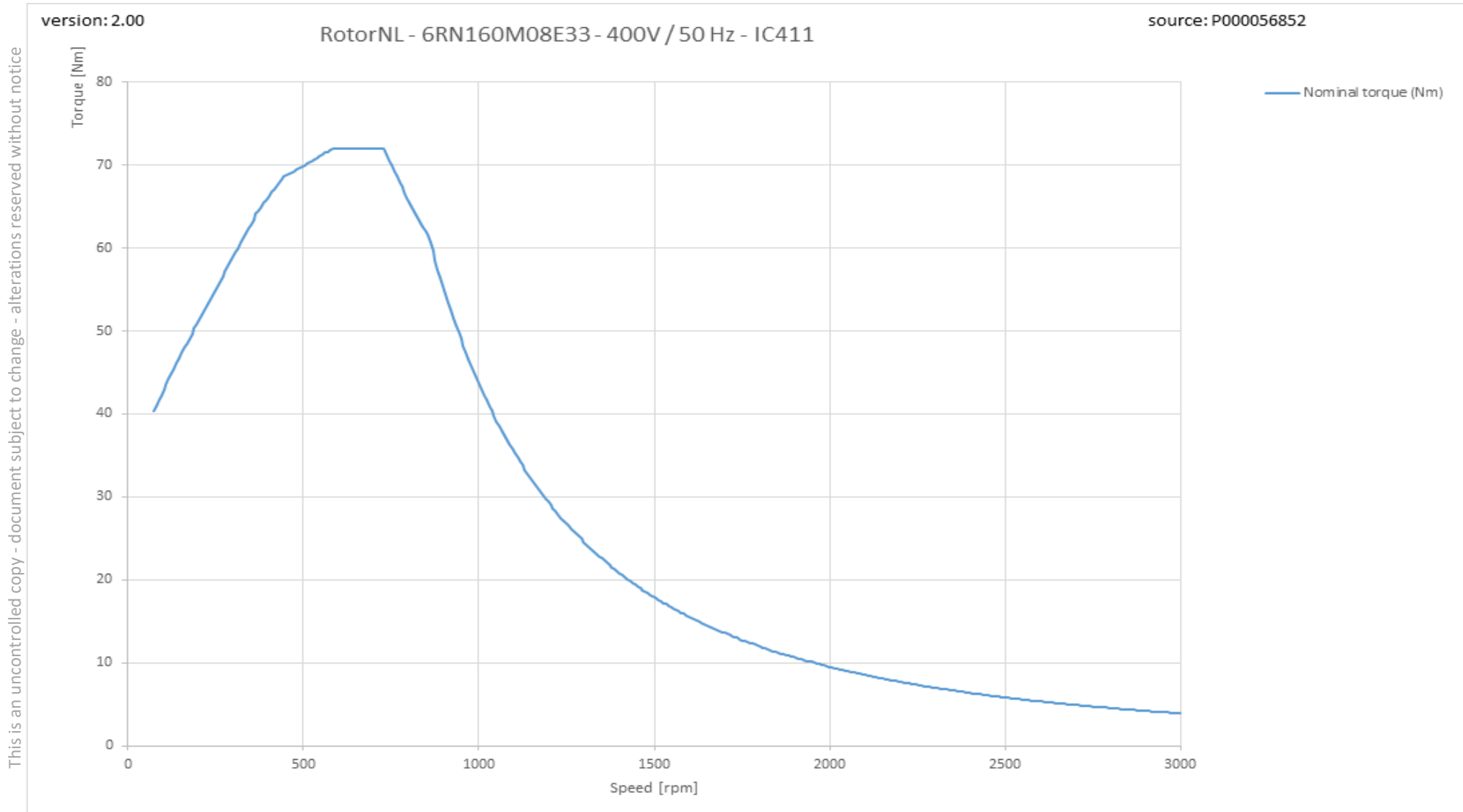
Direction of rotation **cw / ccw**



6RN160M08E33 8-pole 5,50kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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