

# PRODUCT INFORMATION PACKET



Model No: 6RN160M08E33U24B2081

Catalog No: 6RN160M08E33U24B@2081

5.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D230/Y400V 50Hz,  
160M Frame B35, IC411

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**Nameplate Specifications**

Output HP	7.5 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	24.25 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	86.2 %	Power Factor	0.66
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6309-2Z/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	8	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN160M08E33_2041		

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Datasheet



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**Model No.** 8-Pole cage motor 6RN 160M 5,5kW D230V 50Hz IM2081-FF300

U (V)	Δ / Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>R</sub> /T <sub>N</sub> [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	5,5	7 1/3	24,2	730	72	IE3	86,2			0,66			3,80	1,60	1,90
400	Y				14												
265	D	60	6,3	8,445	23,5	880	68	IE3	86,5			0,67			3,90	1,70	1,90
460	Y				13,6												

Motor type	<b>6RN160M08E33</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>160M</b>
Duty	<b>S1</b>
Voltage	<b>230 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>5,5 kW</b>
Insulation class	<b>F</b>
Ambient temperature	<b>-20 till 40 °C</b>
Temperature rise	<b>temp.rise acc. B (80K)</b>
Temperature rise surface	
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>

Rotor type	<b>Cage motor</b>
Bearing type	<b>6309-2Z/C3WT</b>
Type of grease	<b>Unirex N3</b>

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	160%	380%		190%	
@ D 265V 60Hz	170%	390%		190%	

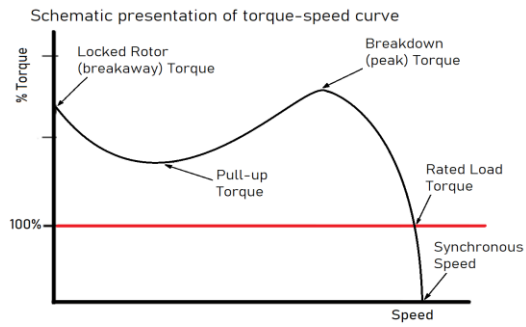
**NOTE**  
 All performance values at rated voltage and frequency.  
 All performance parameters are subjected to standard tolerance as per IEC 60034-1  
 Voltage, Frequency are as per IEC60034-1  
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	<b>IP55</b>
Mounting type	<b>IM2081-FF300</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>111 kg</b>
Gross weight - approx.	<b>114 kg</b>
Motor inertia	<b>0,0830 kgm<sup>2</sup></b>
Vibration level	<b>according IEC60034-14</b>
Noise level (pressure) acc 60034-9	<b>65 dB(A)</b>

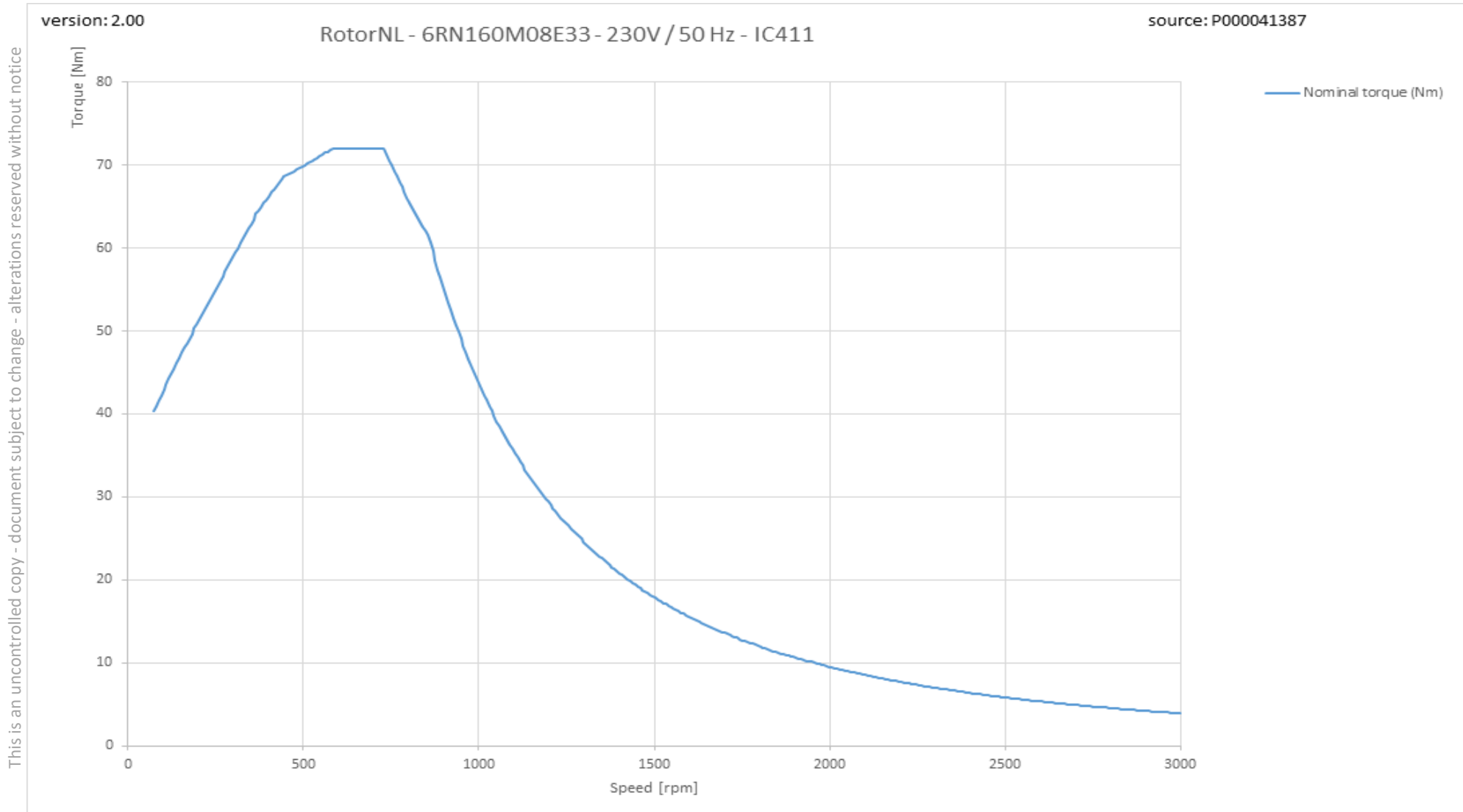
Direction of rotation **cw / ccw**



6RN160M08E33 8-pole 5,50kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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