# PRODUCT INFORMATION PACKET

rotor ni

Model No: 6RN80M02E33U241081 Catalog No: 6RN80M02E33U24@1081

1.10 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz,

80M Frame B3, IC411





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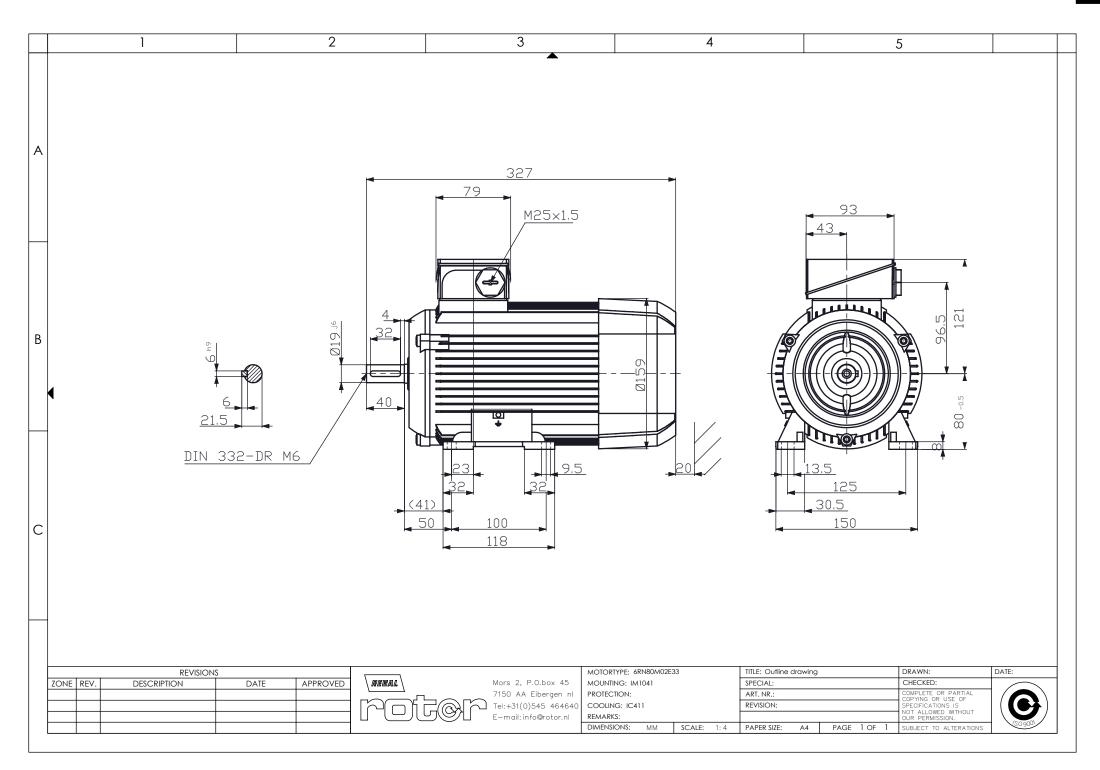
## Nameplate Specifications

Output HP	1.5 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	3.70 A	Speed	2885 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6004-2Z/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	2	Rotation	Clockwise Shaft End	
Mounting	В3	Motor Orientation	Any	
Frame Material	Cast iron	Shaft Type	Keyed	
Shaft Diameter	19 mm	Shaft Extension	40 mm	
Outline Drawing	6RN80M02E33U241081			

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### **Datasheet**





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Model No.

2-Pole cage motor 6RN 80M 1,1kW D230V 50Hz IM1081

U	Δ/Υ	f	Р	Р	I	n	T	IE	% EI	F at load	PF	atload	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL	3/4FL 1/2FL	FL	3/4FL 1/2FL	[pu]	[pu]	[pu]
230	D	50	1,1	1 1/2	3,9	2885	3,66	IE3	83,7		0,84		7,40	2,80	3,80
400	Υ				2,25										
265	D	60	1,27	1,702	3,9	3480	3,5	IE3	84,0	84,0	0,85		7,40	2,80	3,80
460	Υ				2,25										

Motor type	6RN80M02E33
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	Aluminum
Frame size	80M
Duty	\$1
Voltage	<b>230</b> ∨
Frequency	<b>50</b> Hz
Power output	<b>1,1</b> kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	<b>39</b> K
Temperature rise surface	
Altitude above sea level	<b>1000</b> mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	<b>13</b> kg
Gross weight - approx.	<b>13</b> kg
Motor inertia	<b>0,0013</b> kgm²
Vibration level	according IEC60034-14

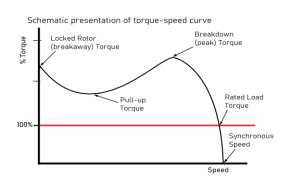
Direction of rotation	cw/ccw

Rotor type	Cage motor
Bearing type	6004-2Z/C3WT

Type of grease	Unirex N3
Type of grease	Office INS

Phase resistance at 20°C	<b>5,0036</b> 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 230V 50Hz	280%	748%	250%	380%	1,88 A
@ D 265V 60Hz	280%	741%		380%	1,57 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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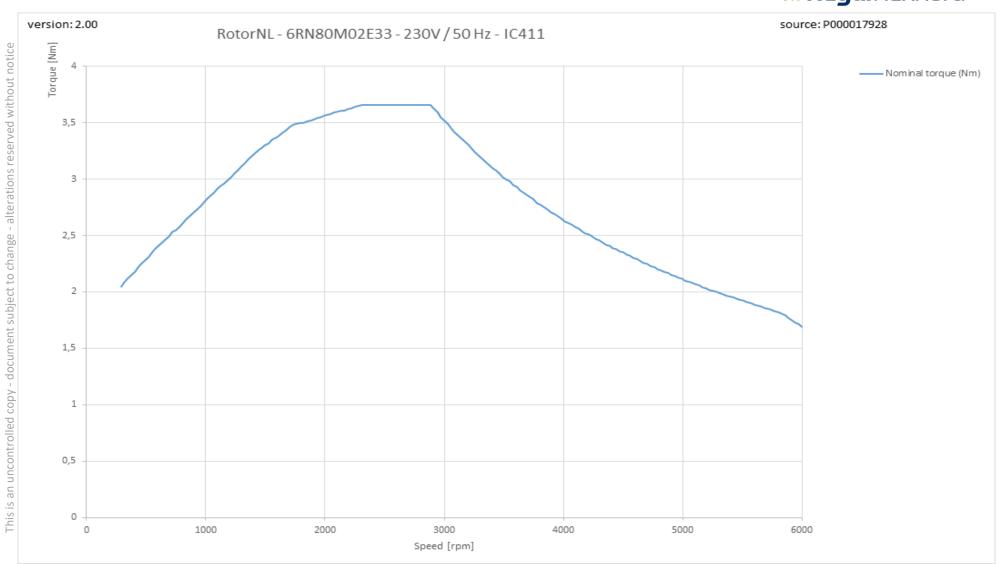
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### 6RN80M02E33 2-pole 1,10kW D/Y 230/400V 50Hz S1 IC411 IE3



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Torque versus Speed curve with variable frequency drive



## Therm\_VSD graph

