PRODUCT INFORMATION PACKET

Model No: 6RN80M02E33U24B2081 Catalog No: 6RN80M02E33U24B@2081 1.10 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz, 80M Frame B35, IC411



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rotor nl

Nameplate Specifications

Output HP	1.50 Нр	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

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	19 mm	Shaft Extension	40 mm
Outline Drawing	6RN80M02E33_2041		

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Datasheet

Model No. 2-Pole cage motor 6RN 80M 1,1kW D230V 50Hz IM2081-FF165

U	Δ/Υ	f	Р	Р	Ι	n	т	IE	% EF	F at load	PF	atload	I _A /I _N	T_A/T_N	Τ _κ /Τ _N
(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	Y				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	Y				2,25										

Motor type	6RN80M02E33
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	80M
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,1 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	39 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area
Rotor type	Cage motor
Bearing type	6004-2Z/C3WT
Type of grease	Unirex N3

Phase resistance at 20°C	5,0036 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	ISO 9001	
Standards	EN-IEC: 60034-30	IEC: 60034-30	certified	
			company	

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IP55
IM2081-FF165
IC411
13 kg
13 kg
0,0013 kgm ²

Vibration level

Direction of rotation

cw /ccw

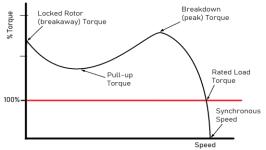
*FRegal*Rexnord®

according IEC60034-14

POt⊙P B.V.

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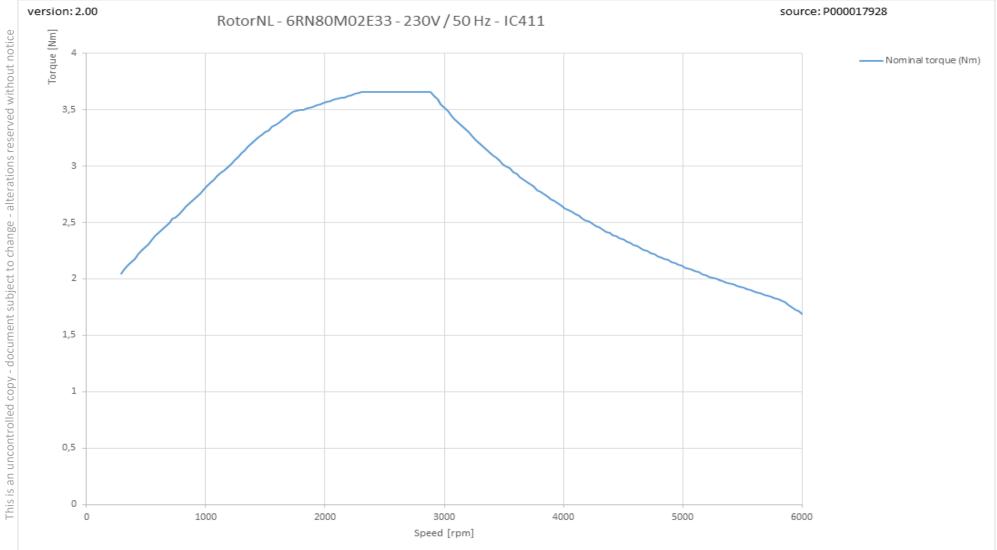




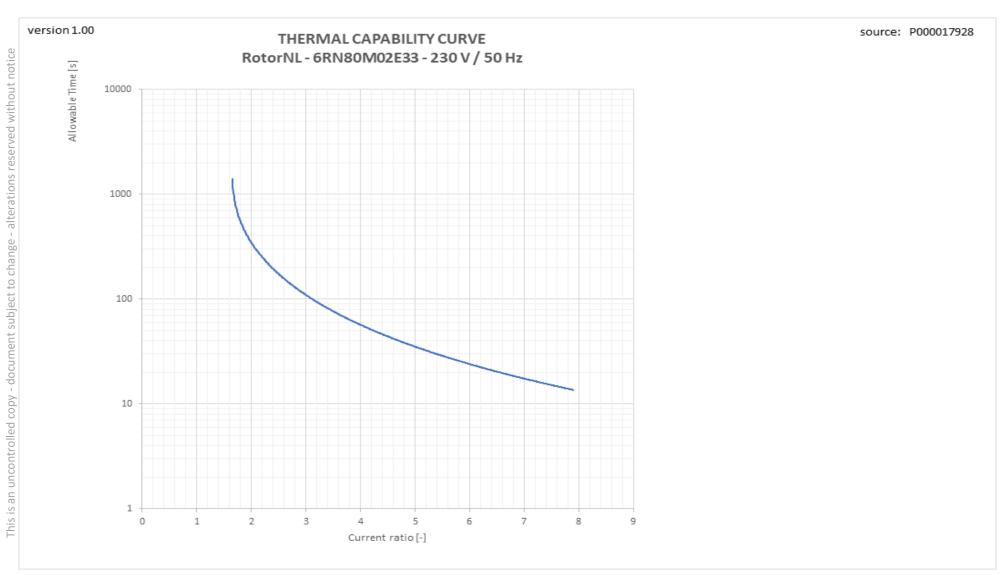
6RN80M02E33 2-pole 1,10kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



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Tn graph

