

PRODUCT INFORMATION PACKET



Model No: 6RN80M04E33U46B2181-A
Catalog No: 6RN80M04E33U46B@2181-A

0.75 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,
80M Frame B34, IC411



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Nameplate Specifications

Output HP	1.00 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	1.72 A	Speed	1450 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.75
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	4	Rotation	Clockwise Shaft End
Mounting	B34	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	19 mm	Shaft Extension	40 mm
Outline Drawing	6RN80M04E33_2141-A		

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Datasheet

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Model No. 4-Pole cage motor 6RN 80M 0,75kW D400V 50Hz IM2181-FT100

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __load FL 3/4FL 1/2FL	I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
400	D	50	0,75	1	1,75	1450	4,9	IE3	83,1	0,75	7,10	2,70	3,90
690	Y				1,01								
460	D	60	0,86	1,153	1,75	1750	4,7	IE3	84,9	0,75	7,58	2,70	3,92

Motor type	6RN80M04E33
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	80M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	0,75 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	23 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
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Country of origin	CZ
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	270%	714%	220%	390%	1,11 A
@ D 460V 60Hz	270%	742%	234%	392%	1,04 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

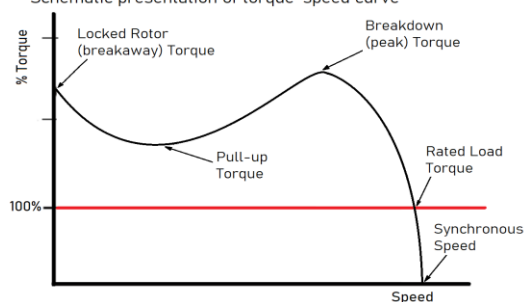
Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

Degree of protection	IP55
Mounting type	IM2181-FT100
Cooling method	IC411
Motor weight - approx.	11 kg
Gross weight - approx.	11 kg
Motor inertia	0,0029 kgm ²
Vibration level	according IEC60034-14

Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



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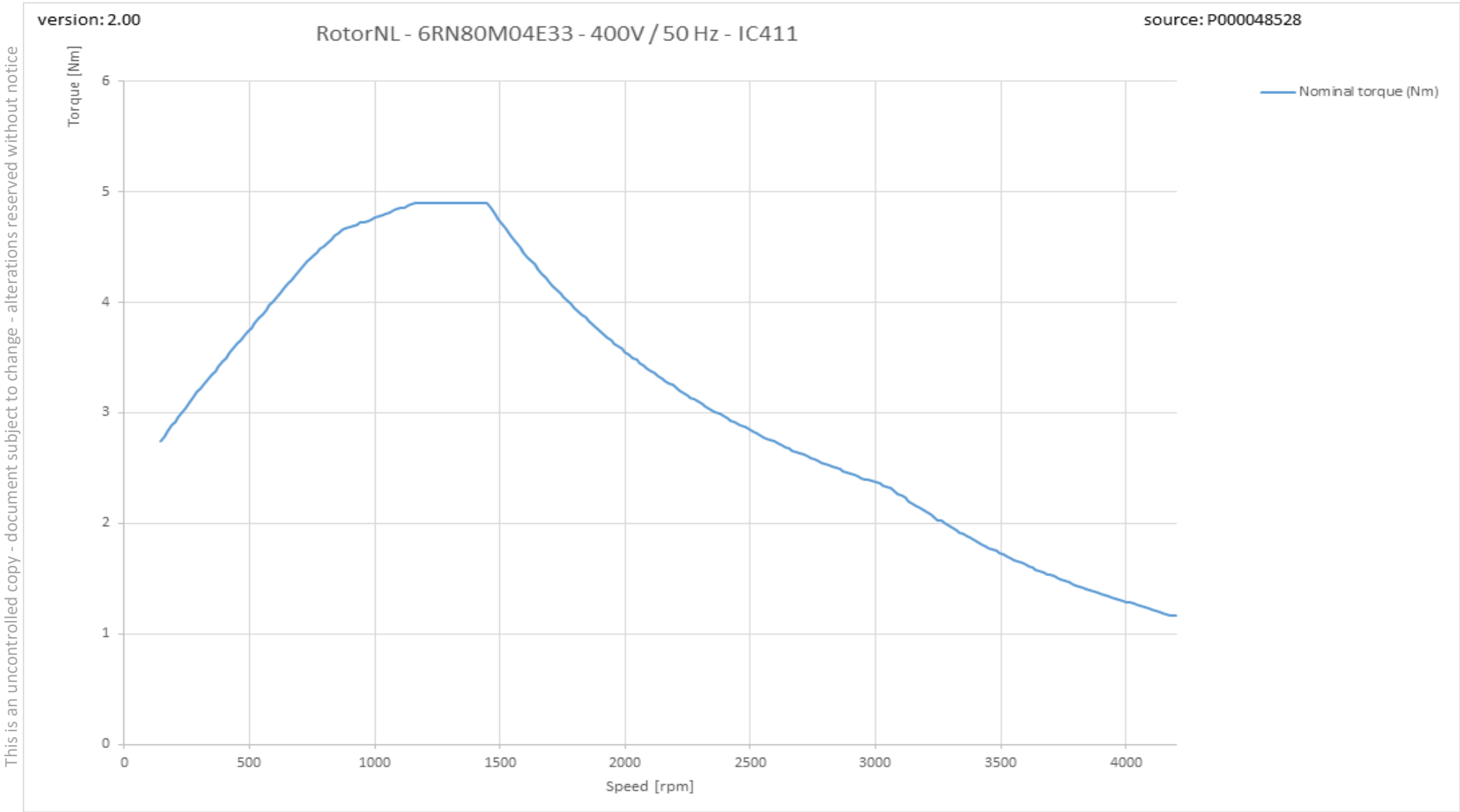
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6RN80M04E33 4-pole 0,75kW D/Y 400/690V 50Hz S1 IC411 IE3

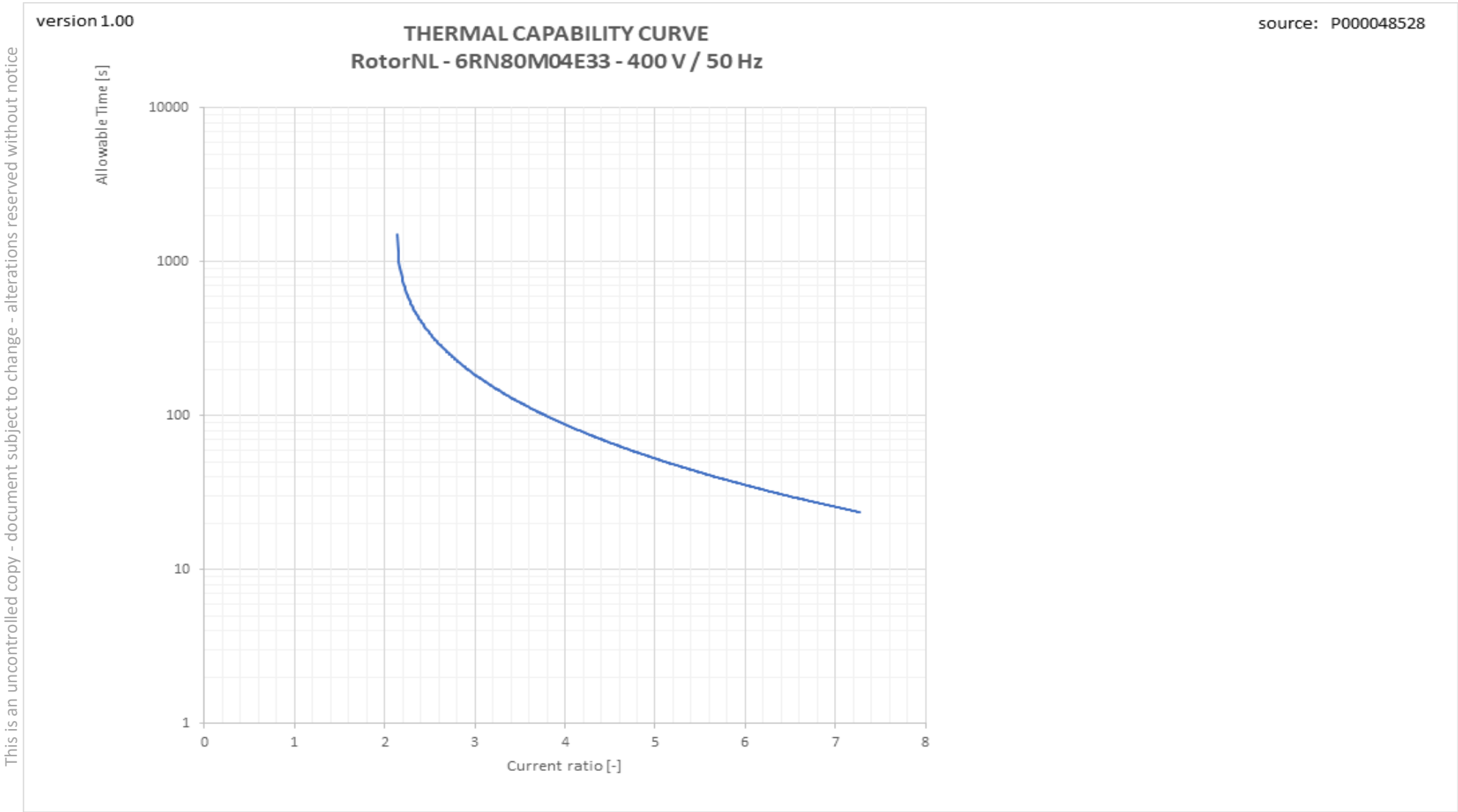


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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