

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN80M04E32U241081

Catalog No: 6RN80M04E32U24@1081

0.55 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,
80M Frame B3, IC411



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Nameplate Specifications

Output HP	0.75 Hp	Output KW	0.55 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	2.17 A	Speed	1440 rpm
Service Factor	1	Phase	3
Efficiency	80.8 %	Power Factor	0.77
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	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	19 mm	Shaft Extension	40 mm
Outline Drawing	6RN80M04E32_1041		

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Datasheet



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Model No. 4-Pole cage motor 6RN 80M 0,55kW D230V 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			
230	D	50	0,55	0,737	2,17	1440	3,65	IE3	81,5	81,8	79,9	0,77	0,69	0,56	6,03	2,13	3,10
400	Y				1,25												
265	D	60	0,63	0,845	2,13	1740	3,46	IE3	83,3	83,5	81,5	0,77	0,69	0,57	6,43	2,40	3,30
460	Y				1,23												

Motor type	6RN80M04E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	80M
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	0,55 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	17 K
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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Phase resistance at 20°C	27,0390 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	213%	603%	210%	310%	1,32 A
@ D 265V 60Hz	240%	643%	204%	330%	1,23 A

NOTE

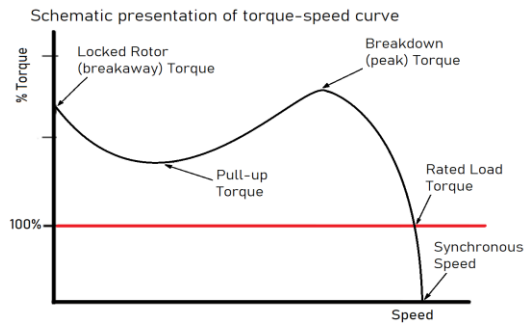
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	11 kg
Gross weight - approx.	11 kg
Motor inertia	0,0021 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	50,3 dB(A)

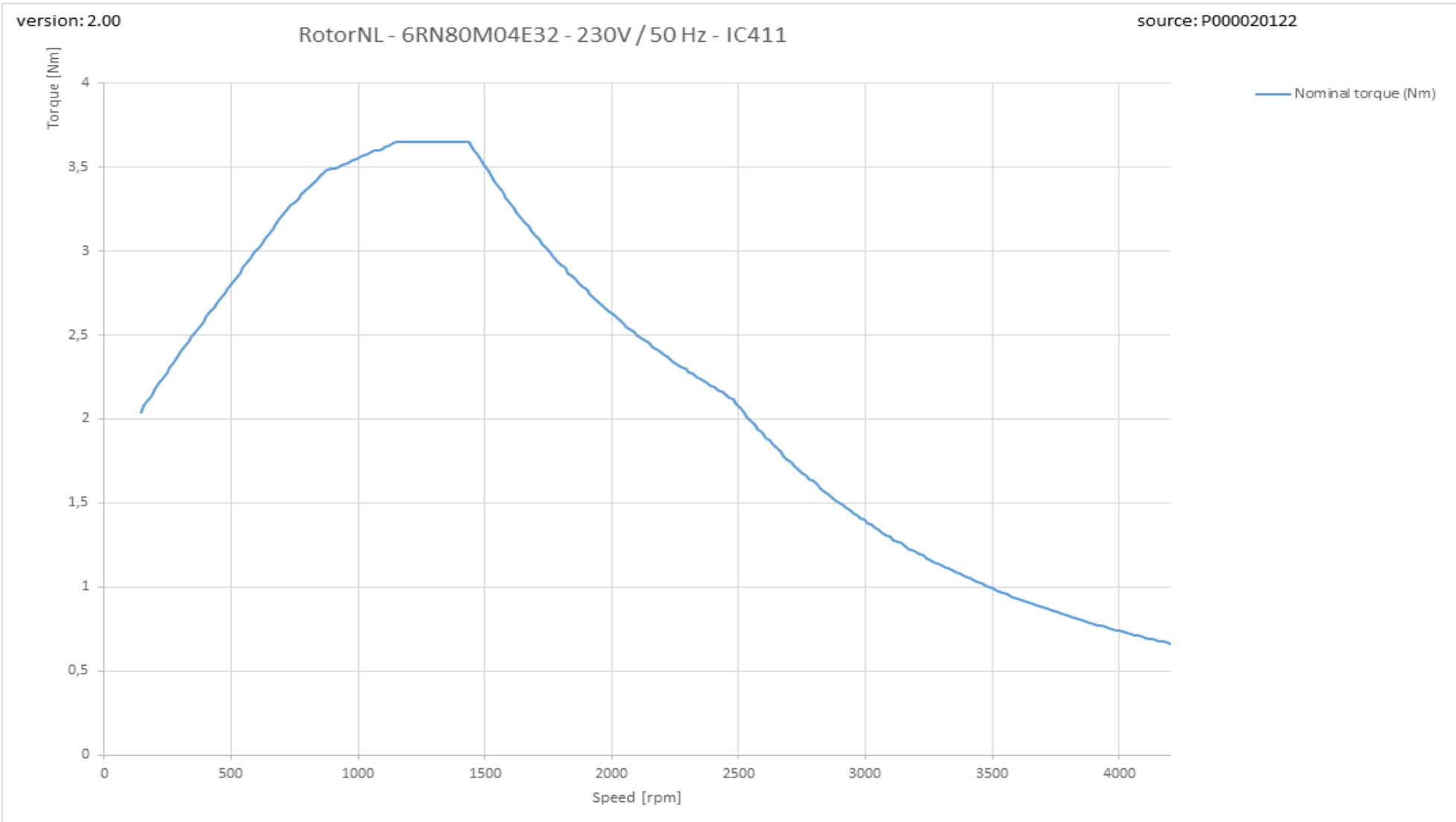
Direction of rotation	cw / ccw
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6RN80M04E32 4-pole 0,55kW D/Y 230/400V 50Hz S1 IC411 IE3



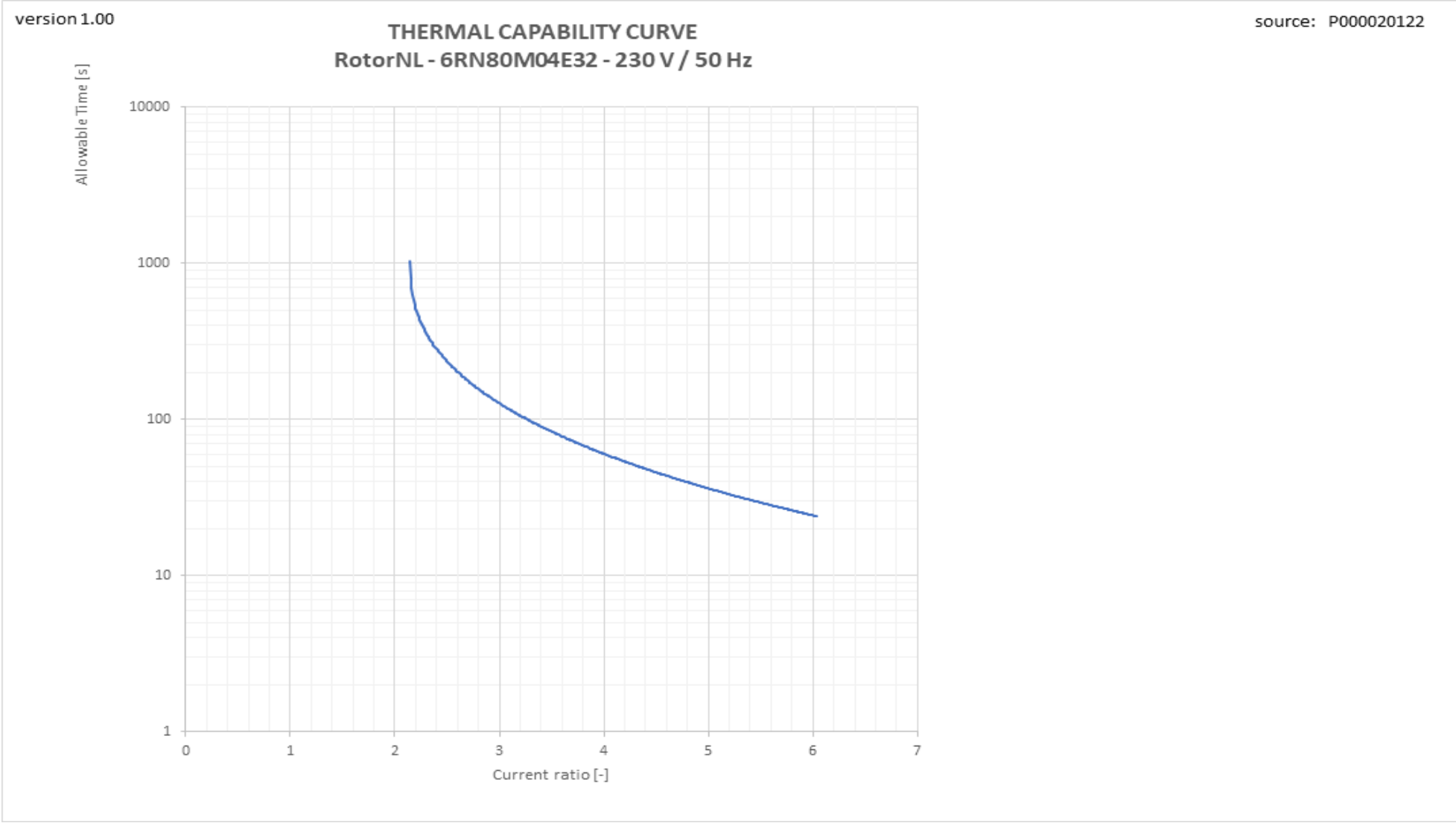
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

