

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN80M06E33U24B3641-A
Catalog No: 6RN80M06E33U24B@3641-A

0.55 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,
80M Frame B14, IC411



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Nameplate Specifications

Efficiency Class

IE3

Technical Specifications

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Datasheet



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Model No. 6-Pole cage motor 6RN 80M 0,55kW D230V 50Hz IM3641-FT100

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	2,66	935	5,62	IE3	76,4	76,9	74,4	0,68	0,59	0,46	4,49	2,56	2,84
400	Y				1,53												
265	D	60	0,63	0,845	2,49	1135	5,3	IE3	79,2	79,5	77,2	0,67	0,59	0,46	5,02	2,47	2,96
460	Y				1,44												

Motor type	6RN80M06E33
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	43 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	24,7210 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	256%	522%	251%	284%	1,84 A
@ D 265V 60Hz	247%	502%	251%	296%	1,71 A

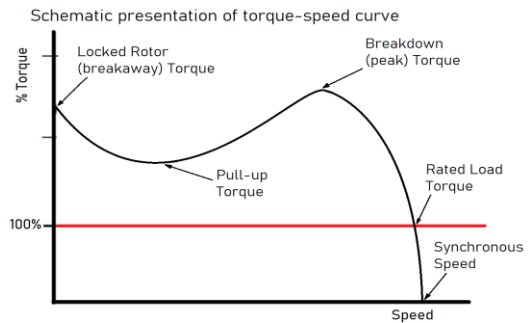
NOTE

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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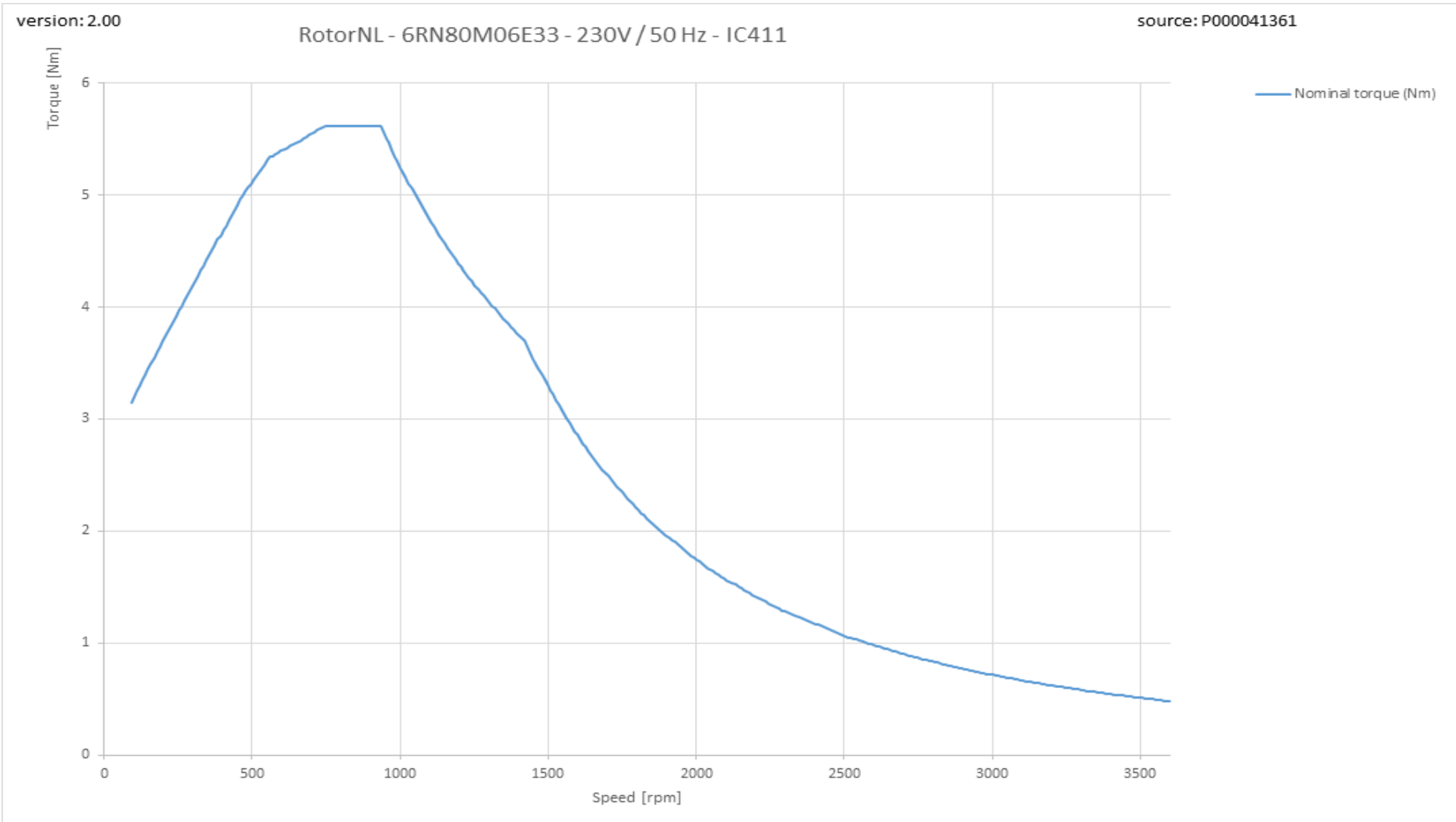
Degree of protection	IP55
Mounting type	IM3641-FT100
Cooling method	IC411
Motor weight - approx.	12 kg
Gross weight - approx.	12 kg
Motor inertia	0,0031 kgm²
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw



6RN80M06E33 6-pole 0,55kW D/Y 230/400V 50Hz S1 IC411 IE3

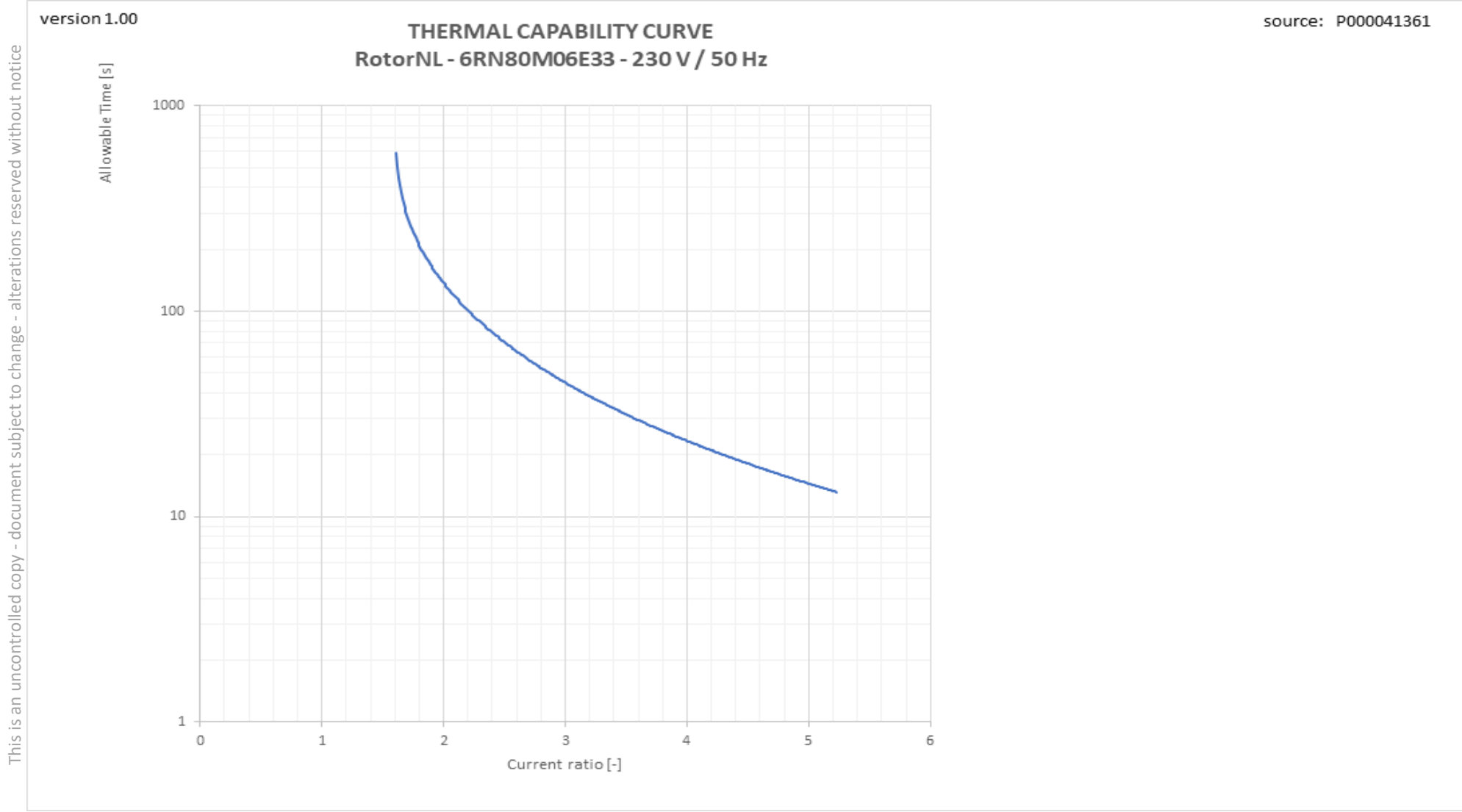


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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Tn graph

