

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN160L04E34U241081

Catalog No: 6RN160L04E34U24@1081

15.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,
160L Frame B3, IC411



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Nameplate Specifications

Output HP	20 Hp	Output KW	15.0 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	50.29 A	Speed	1475 rpm
Service Factor	1	Phase	3
Efficiency	92.1 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6309-2Z/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	42 mm	Shaft Extension	110 mm
Outline Drawing	6RN160L04E34_1041		

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Datasheet



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Model No. 4-Pole cage motor 6RN 160L 15kW 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	15	20	50,3	1475	97	IE3	92,5	92,1	91,1	0,81	0,77	0,67	8,50	2,50	3,80
400	Y				29												
265	D	60	17,3	23,19	48,7	1775	93	IE3	93,6	93,6	92,1	0,83	0,79	0,69	8,50	2,50	3,80
460	Y				28,1												

Motor type	6RN160L04E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160L
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	15 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	48 K
Temperature rise surface	20 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	114 kg
Gross weight - approx.	117 kg
Motor inertia	0,0990 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	65 dB(A)

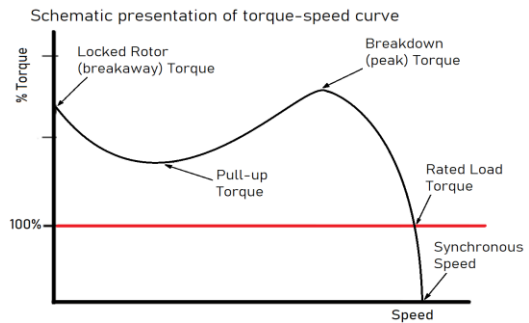
Rotor type	Cage motor
Bearing type	6309-2Z/C3WT
Type of grease	Unirex N3
Phase resistance at 20°C	0,1857 Ohm
Country of origin	CZ

Voltage/Freq	Locked rotor Torque [nom] [%]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	250%	848%	180%	380%	23,1 A
@ D 265V 60Hz	250%	850%		380%	

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.

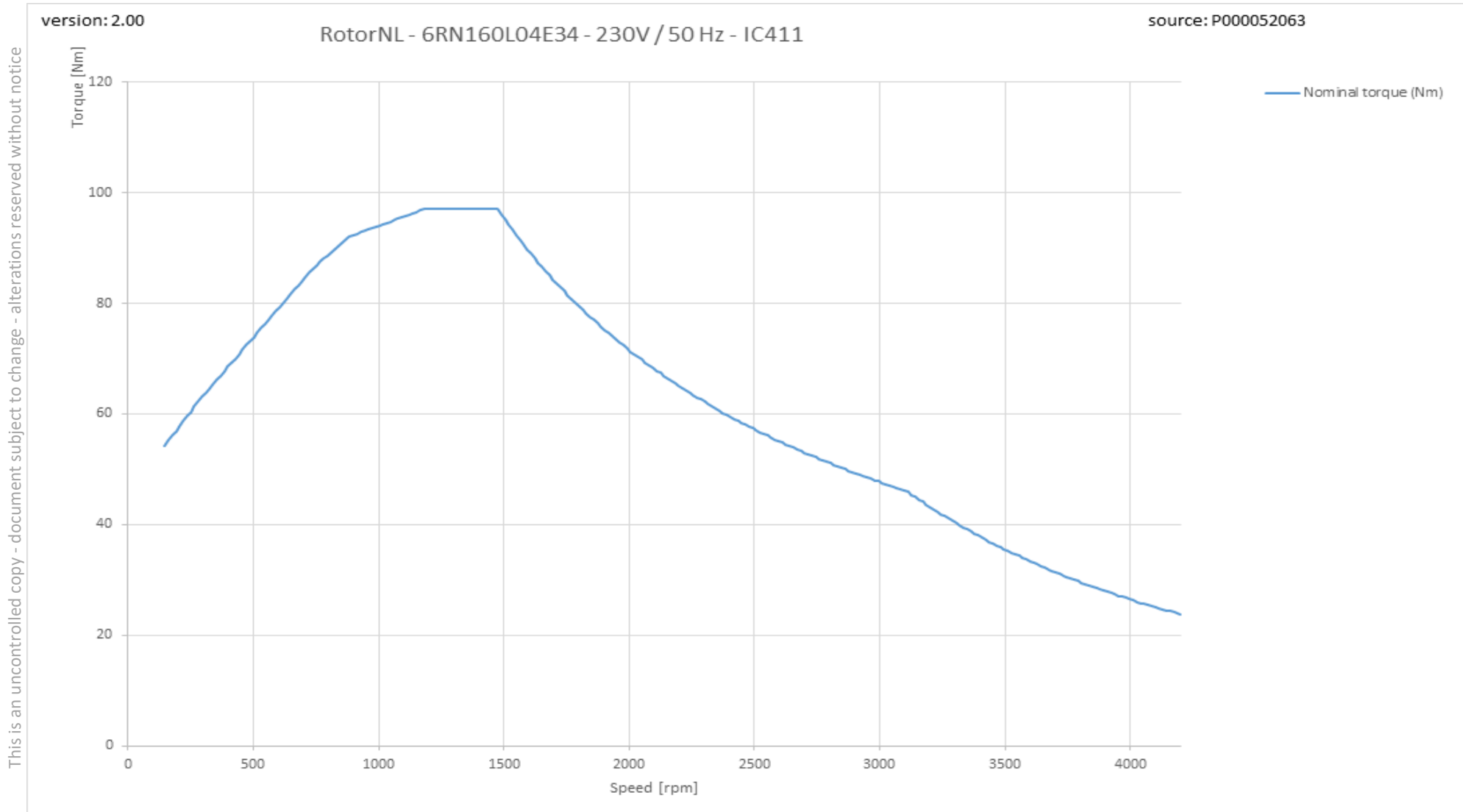
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30



6RN160L04E34 4-pole 15,00kW D/Y 230/400V 50Hz S1 IC411 IE3

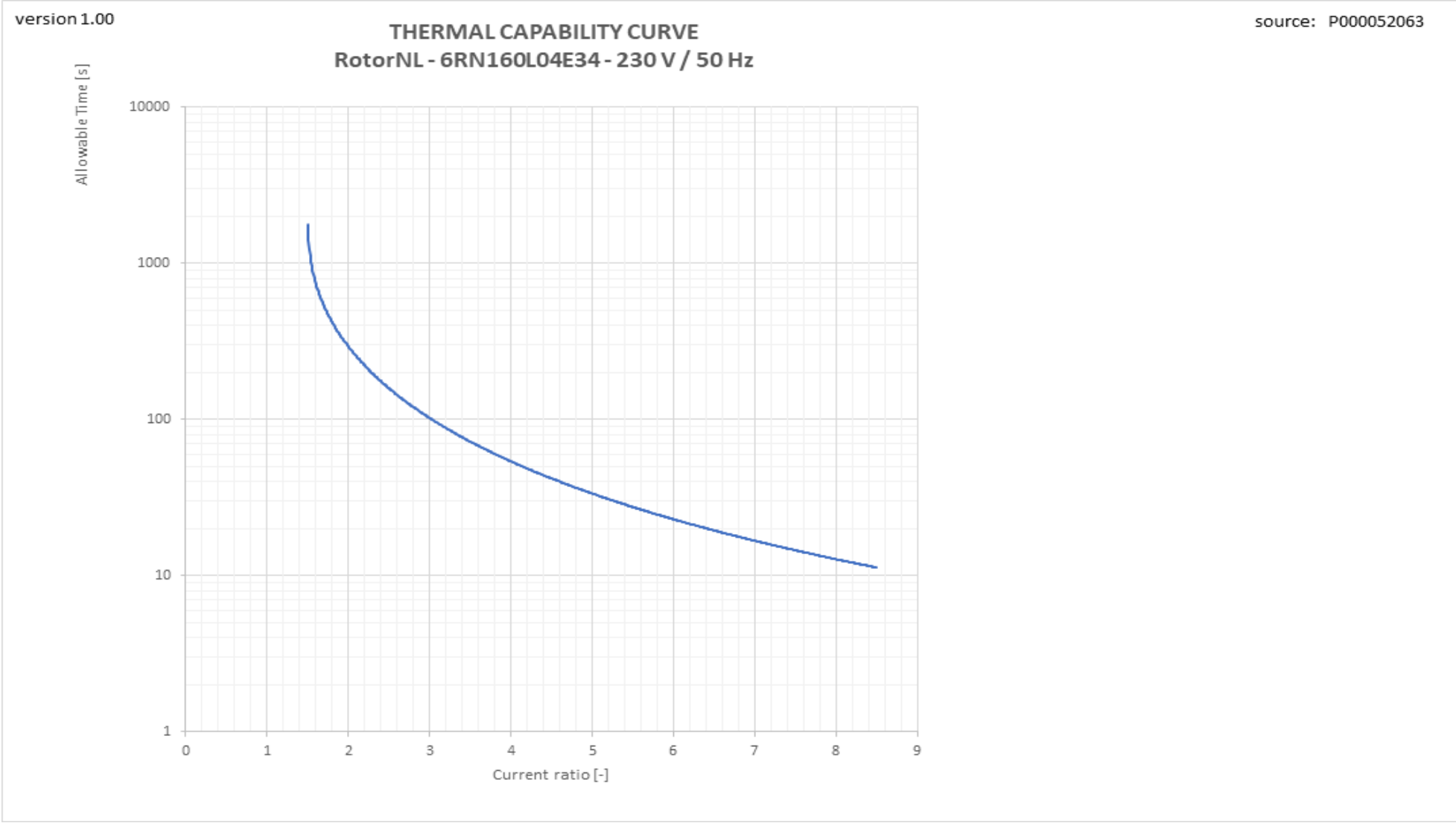


Torque versus Speed curve with variable frequency drive



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Therm_VSD graph



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Tn graph

