# **PRODUCT INFORMATION PACKET**

Model No: 6RN90S06E30U243041 Catalog No: 6RN90S06E30U24@3041 0.75 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz, 90S Frame B5, IC411



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# rotor nl

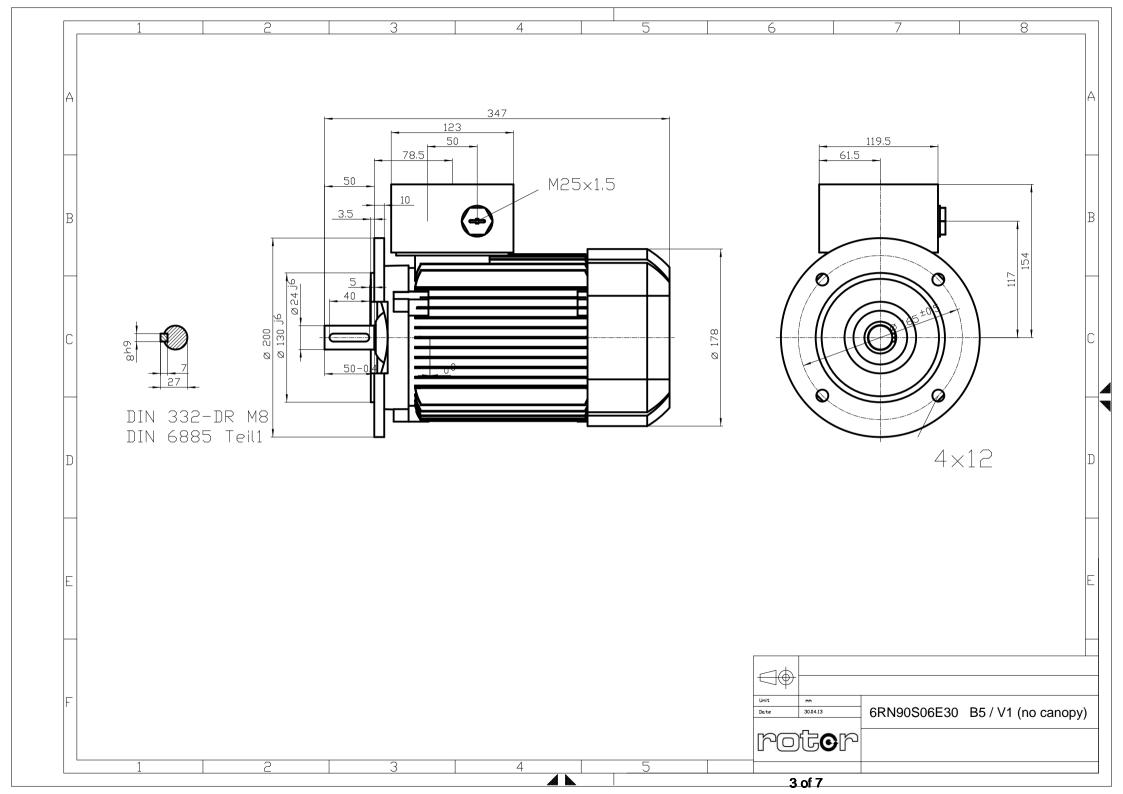
#### Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	3.39 A	Speed	945 rpm
Service Factor	1	Phase	3
Efficiency	78.9 %	Power Factor	0.70
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205-2Z/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	6	Rotation	Clockwise Shaft End
Mounting	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	24 mm	Shaft Extension	50 mm
Outline Drawing	6RN90S06E30U243041		

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## Datasheet rotor nl

#### Model No. 6-Pole cage motor 6RN 90S 0,75kW D230V 50Hz IM3041-FF165

U	Δ/Υ	f	Р	Р	I	n	т	IE	% EI	Fat	load	PF	at _lo	ad	$I_A/I_N$	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(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	0,75	1	3,39	945	7,59	IE3	78,5	79,6	78,4	0,70	0,62	0,50	4,54	2,12	2,57
400	Y				1,96												
265	D	60	0,86	1,153	3,24	1145	7,2	IE3	81,3	82,1	80,6	0,69	0,61	0,49	4,90	2,04	2,67
460	Y				1,88												

Motor type	6RN90S06E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	905
Duty	S1
Voltage	<b>230</b> V
Frequency	<b>50</b> Hz
Power output	0,75 kW
Insulation class	F
Ambient temperature	<b>-20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	<b>45</b> K
Temperature rise surface	
Altitude above sea level	<b>1000</b> 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	<b>8,7229</b> 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	212%	454%	211%	257%	2,18 A
@ D 265V 60Hz	204%	490%	204%	267%	2.03 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 dat	a are subject to change. Th	ere 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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V2.07

9,6	78,4	0,70	0,62	0,50	4,54	2,12	2,57	
2,1	80,6	0,69	0,61	0,49	4,90	2,04	2,67	-
of pr	otectio	n					IP55	
ing ty	pe					IM3041	-FF165	

POt⊙P B.V.

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Mounting type	IM3041-FF165
Cooling method	IC411
Motor weight - approx.	<b>18</b> kg
Gross weight - approx.	<b>19</b> kg
Motor inertia	<b>0,0040</b> kgm <sup>2</sup>

Vibration level

Degree

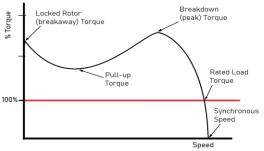
Direction of rotation

cw /ccw

*FRegal*Rexnord

according IEC60034-14

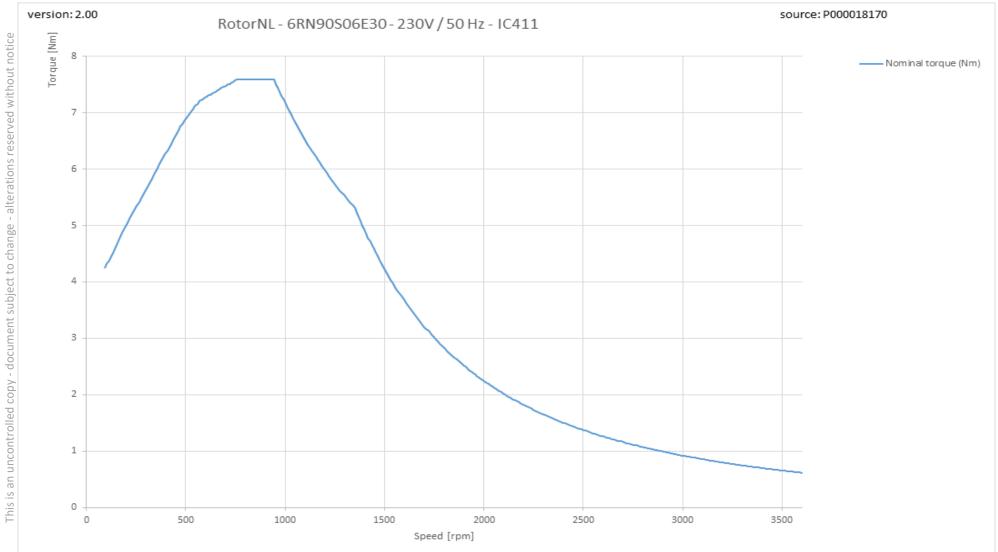
Schematic presentation of torque-speed curve



6RN90S06E30 6-pole 0,75kW D/Y 230/400V 50Hz S1 IC411 IE3

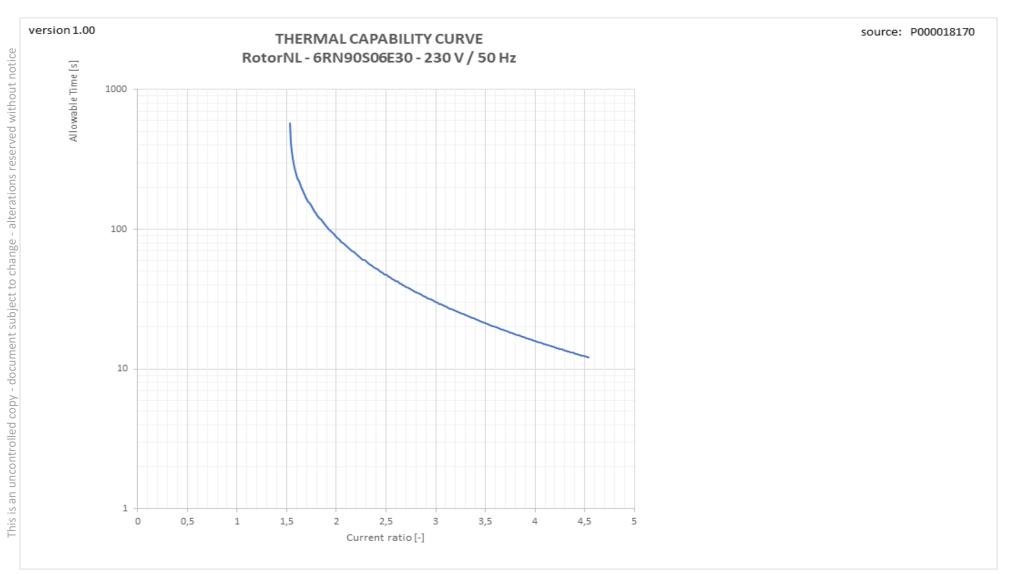


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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Tn graph

