# PRODUCT INFORMATION PACKET



Model No: 6RN90S02E30U24B2181-B Catalog No: 6RN90S02E30U24B@2181-B

1.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz,

90S Frame B34, IC411



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## Nameplate Specifications

Output HP	2.00 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	5.20 A	Speed	2910 rpm
Service Factor	1	Phase	3
Efficiency	84.5 %	Power Factor	0.86
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
Number of Speeds	1	Efficiency Class	IE3

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	2	Rotation	Clockwise Shaft End	Clockwise Shaft End	
Mounting	B34	Motor Orientation	Any		
Frame Material	Cast iron	Shaft Type	Keyed		
Shaft Diameter	24 mm	Shaft Extension	50 mm		
Outline Drawing	6RN90S02E30_2141-B				

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### **Datasheet**





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cw/ccw

Model No. 2-Pole cage motor 6RN 90S 1,5kW D230V 50Hz IM2181-FT130

U	Δ/Υ	f	Р	Р	ı	n	T	IE	% EFF at load	PF atload	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	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	1,5	2	5,2	2910	4,9	IE3	85,2	0,86	8,10	2,70	4,20
400	Υ				3								
265	D	60	1,75	2 1/3	5,15	3510	4,76	IE3	86,0	0,87	8,75	2,64	4,20
460	Υ				2,95								

Motor type	6RN90S02E30
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	Aluminum
Frame size	90S
Duty	<b>S1</b>
Voltage	230 V
Frequency	<b>50</b> Hz
Power output	<b>1,5</b> kW
Insulation class	F
Ambient temperature	- <b>20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	<b>38</b> K
Temperature rise surface	<b>10</b> K
Altitude above sea level	<b>1000</b> mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM2181-FT130
Cooling method	IC411
Motor weight - approx.	<b>18</b> kg
Gross weight - approx.	<b>19</b> kg
Motor inertia	<b>0,0021</b> kgm²
Vibration level	according IEC60034-14

Altitude above sea level	<b>1000</b> mtr
lazardous area classification	Safe area

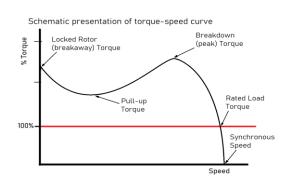
Direction of rotation

Rotor type Cage motor
Bearing type 6004-2Z/C3WT

Type of grease Unirex N3

Phase resistance at 20°C	<b>4,0313</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	270%	809%	220%	420%	2,44 A
@ D 265V 60Hz	264%	871%	211%	420%	2,19 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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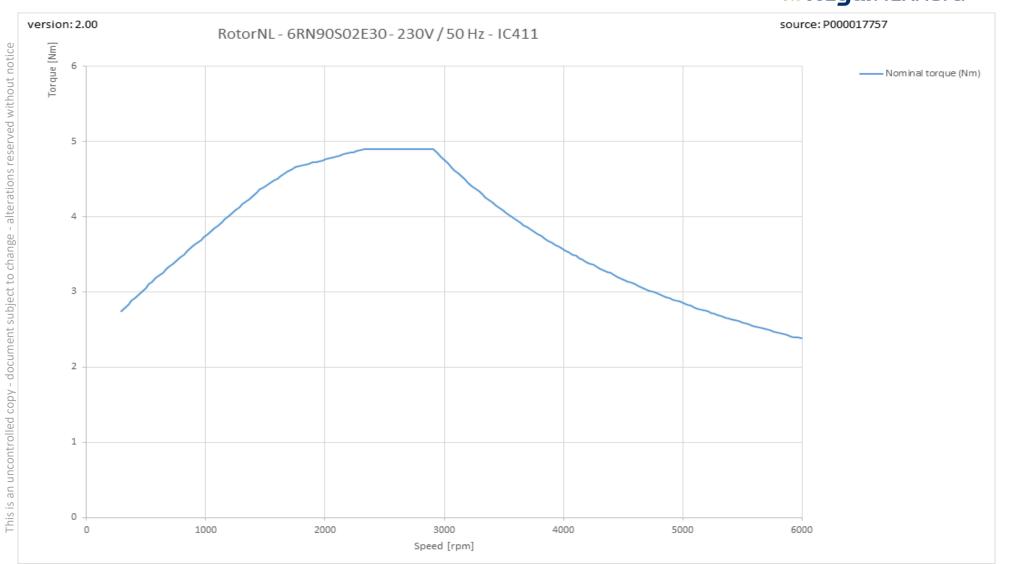


### 6RN90S02E30 2-pole 1,50kW D/Y 230/400V 50Hz S1 IC411 IE3



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Torque versus Speed curve with variable frequency drive



## Therm\_VSD graph

