PRODUCT INFORMATION PACKET

Model No: 6RN90S02E30U241081-Uni Catalog No: 6RN90S02E30U24@1081-Uni 1.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz, 90S Frame B3, IC411





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Nameplate Specifications

Output HP	2 Нр	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
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	24 mm	Shaft Extension	50 mm

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Model No. 2-Pole cage motor 6RN 90S 1,5kW D230V 50Hz IM1081

U	Δ/Υ	f	Р	Р	Ι	n	Т	IE	% E	FF at load	PF	atload	I _A /I _N	T_A/T_N	T _κ /T _N
(∨)	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	Y				3										
265	D	60	1,75	2,346	5,15	3510	4,76	IE3	86,0		0,87		8,75	2,64	4,20
460	Y				2,95										

Motor type	6RN90S02E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	905
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise winding	38 К
Temperature rise surface	10 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

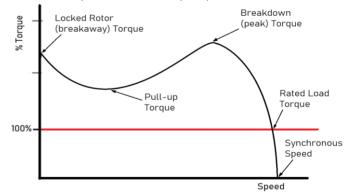
Degree of protection	IP55		
Mounting type	IM1081		
Cooling method	IC411		
Motor weight - approx.	16 kg		
Gross weight - approx.	16 kg		
Motor inertia	0,0021 kgm²		
Vibration level	according IEC60034-14		
Starting method	d.o.l.		
Direction of rotation	cw /ccw		
Paint shade	RAL 7030		

Terminal box position

Top - Pos 3

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Schematic presentation of torque-speed curve



NOTE

Torques

Rotor type

Bearing type

Type of grease

Country of origin

@230V 50Hz

@265V 60Hz

All performance values at rated voltage and frequency.

Locked rotor

270%

264%

All performance parameters are subjected to standard tolerance as per IEC 60034-1 Voltage, Frequency are as per IEC60034-1

At start

13,2 A

12,5 A

Pull-up

220%

211%

Technical dat	rotor		
Efficiency	Europe	Global IEC	ISO 9001
Standards	EN-IEC: 60034-30	IEC: 60034-30	certified
			company

Cage motor

Unirex N3

CZ

No-load

2,44 A

2,19 A

Rolling element bearing

Breakdown

420%

420%

6205-2Z/C3WT - 6004-2Z/C3WT

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Torque versus Speed curve with variable frequency drive

