PRODUCT INFORMATION PACKET

rotor ni

Model No: 6RN90S04E30U241081 Catalog No: 6RN90S04E30U24@1081

1.10 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,

90S Frame B3, IC411











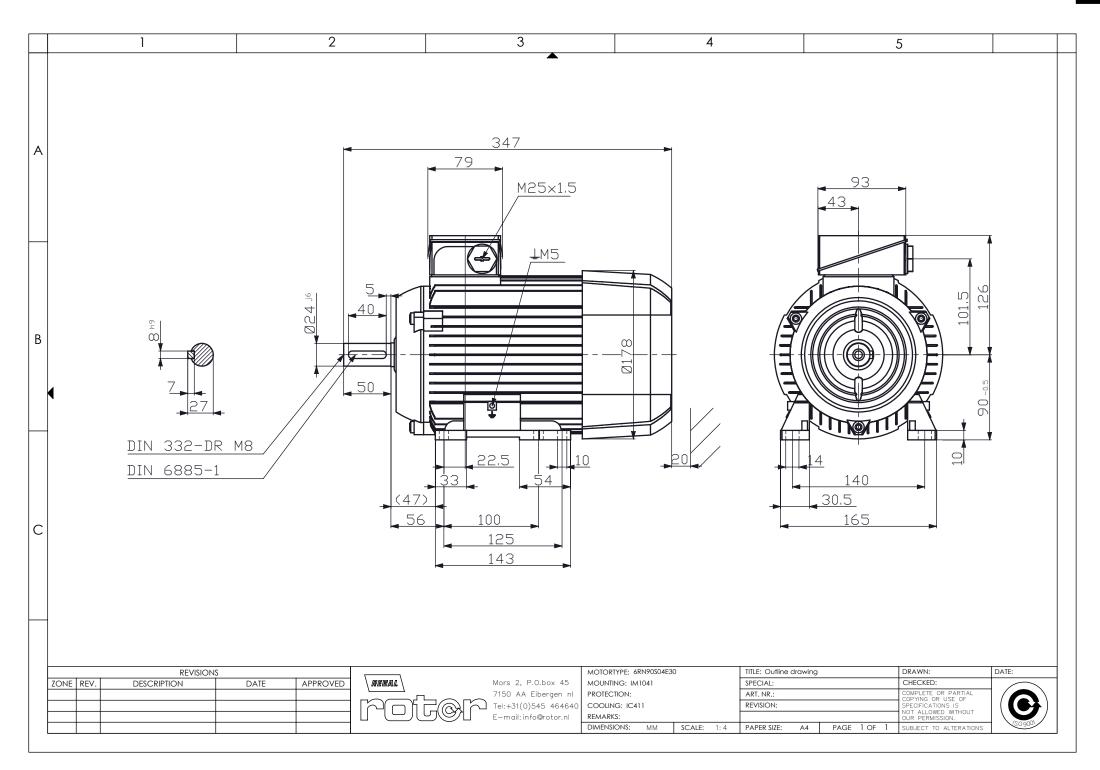
Nameplate Specifications

Output HP	1.5 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	D230/Y400 V
Current	4.22 A	Speed	1445 rpm
Service Factor	1	Phase	3
Efficiency	84.1 %	Power Factor	0.78
Duty	S 1	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	4	Rotation	Clockwise Shaft End		
Mounting	В3	Motor Orientation	Any		
Frame Material	Cast iron	Shaft Type	Keyed		
Shaft Diameter	24 mm	Shaft Extension	50 mm		
Outline Drawing	6RN90S04E30U241081				

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Datasheet





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cw/ccw

Model No.

4-Pole cage motor 6RN 90S 1,1kW D230V 50Hz IM1081

U	Δ/Υ	f	Р	Р	ı	n	T	IE	% EFF at load	PF atload	I _A /I _N	T _A /T _N	T _K /T _N
(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	1,1	1 1/2	4,2	1445	7,3	IE3	84,5	0,78	6,80	2,31	3,60
400	Υ				2,4								
265	D	60	1,27	1,702	4,15	1740	6,98	IE3	85,8	0,79	7,44	2,96	3,75
460	Υ				2,4								

Direction of rotation

Motor type	6RN90S04E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	90\$
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,1 kW
Insulation class	F
Ambient temperature	- 20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	27 K
Temperature rise surface	19 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

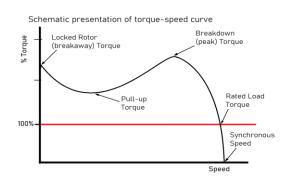
Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	16 kg
Gross weight - approx.	16 kg
Motor inertia	0,0028 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	0 dB(A)

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

Type of grease	Unirex N3
Type of grease	Ullitex N3

Phase resistance at 20°C	5,0520 Ohm
Country of origin	CZ

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	current Torque		No-load Current [A]
@ D 230V 50Hz	231%	683%		360%	2,4 A
@ D 265V 60Hz	296%	742%	241%	375%	2,23 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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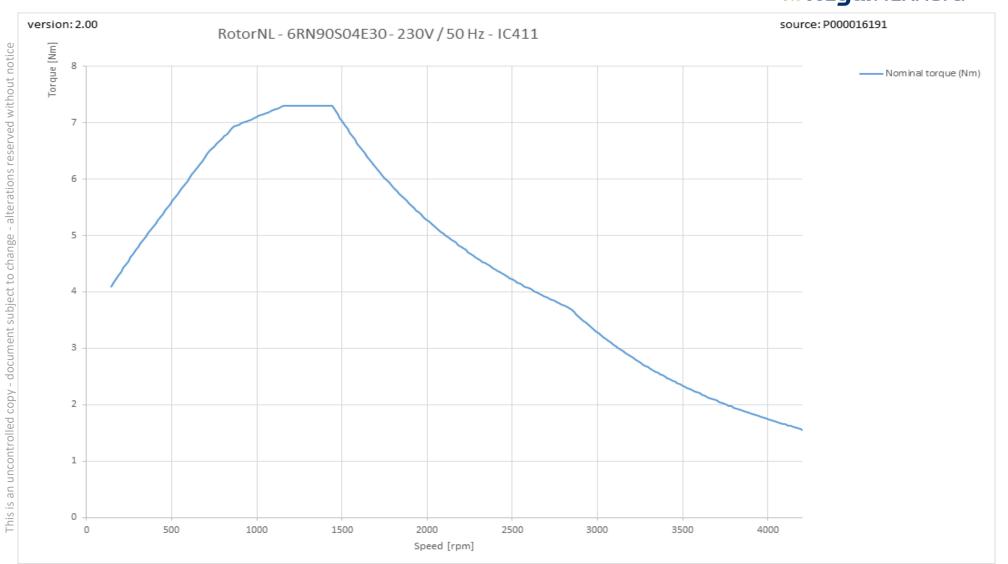


6RN90S04E30 4-pole 1,10kW D/Y 230/400V 50Hz S1 IC411 IE3





Torque versus Speed curve with variable frequency drive



Therm_VSD graph

