PRODUCT INFORMATION PACKET



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

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

90S Frame B3, IC411



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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	g Size 6205-2Z/C3WT (-40°C/+160°C) Opp Drive End Bearing Size No CSA		6004-2Z/C3WT (-40°C/+160°C)		
UL			Optional		
CE	Yes	IP Code	IP55		
Number of Speeds	1 Efficiency Class IE3		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

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Model No. 4-Pole cage motor 6RN 90S 1,1kW D230V 50Hz IM1081

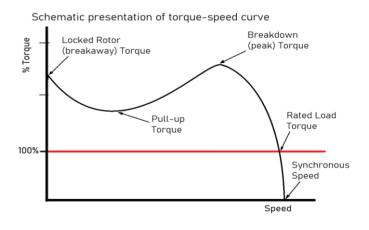
U	Δ/Υ	f	Р	Р	ı	n	Т	IE	% EF	F at	load	PF	atload	I _A /I _N	T _A /T _N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL	3/4FL	1/2FL	FL	3/4FL 1/2F	L [pu]	[pu]	[pu]
230	D	50	1,1	1,5	4,2	1445	7,3	IE3	84,5			0,78		6,80	2,31	3,60
400	Υ				2,4											
265	D	60	1,27	1,702	4,15	1740	6,98	IE3	85,8			0,79		7,44	2,96	3,75
460	Υ				2,4											

Motor type	6RN90S04E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	90\$
Duty	\$1
Voltage	230 ∨
Frequency	50 Hz
Power output	1,1 kW
Insulation class	F
Ambient temperature	- 20 till 40 °C
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)
Starting method	d.o.l.	
Direction of rotation	cw/ccw	
Paint shade	RAL 7030	

Rotor type	Cage motor
Bearing type	Rolling element bearing
	6205-2Z/C3WT - 6004-2Z/C3WT
Type of grease	Unirex N3
Country of origin	CZ

Torques	Locked rotor	At start	Pull-up	Breakdown	No-load
@230V 50Hz	231%	16,8 A		360%	2,4 A
@265V 60Hz	296%	20,6 A	241%	375%	2,23 A



Terminal box position

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

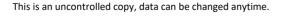
Voltage, Frequency are as per IEC60034-1

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



Top - Pos 3

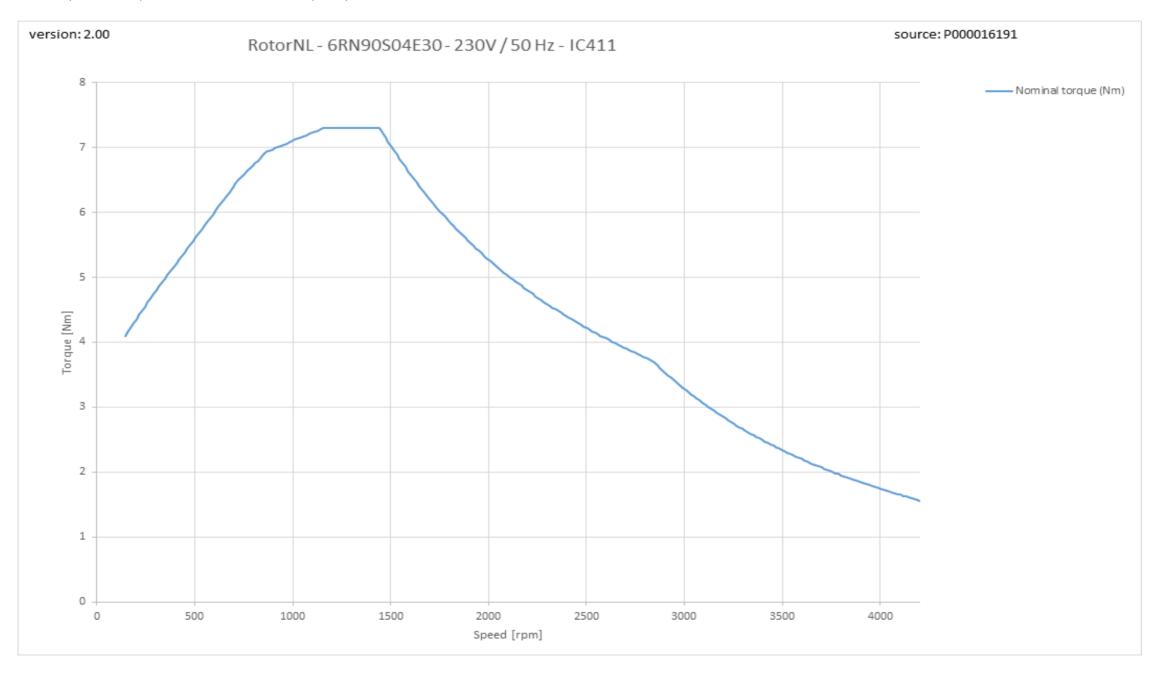




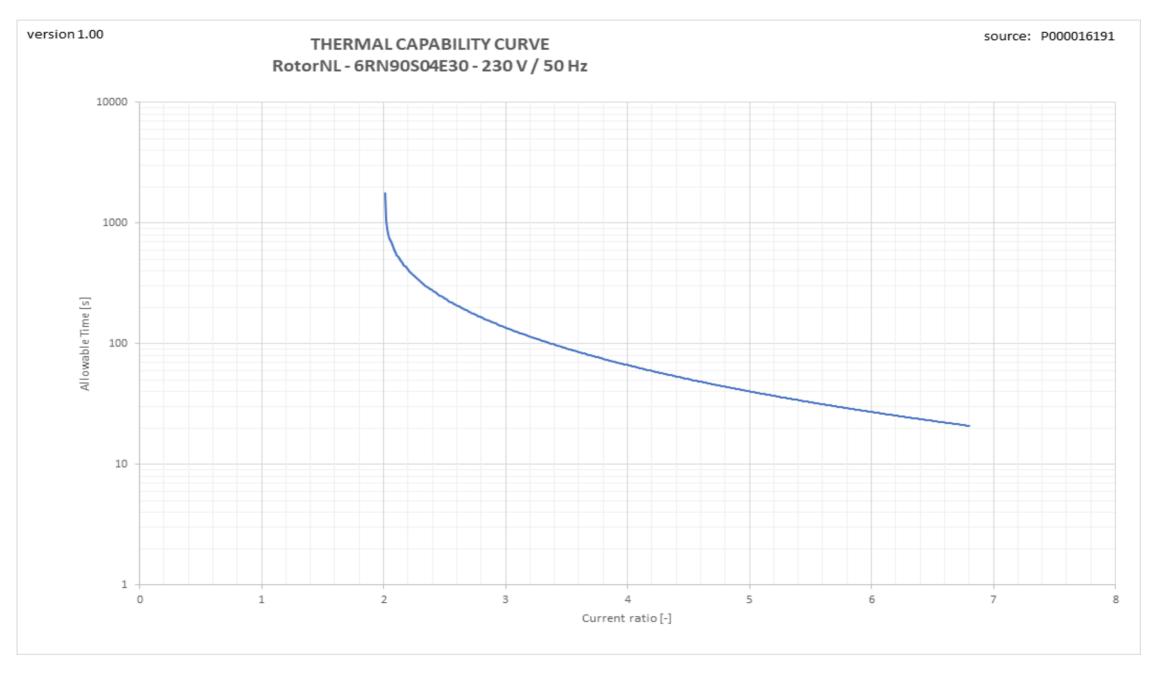
6RN90S04E30 4-pole 1,10kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph

