PRODUCT INFORMATION PACKET

Model No: 6RN90S04E30U463041 Catalog No: 6RN90S04E30U46@3041 1.10 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz, 90S Frame B5, IC411



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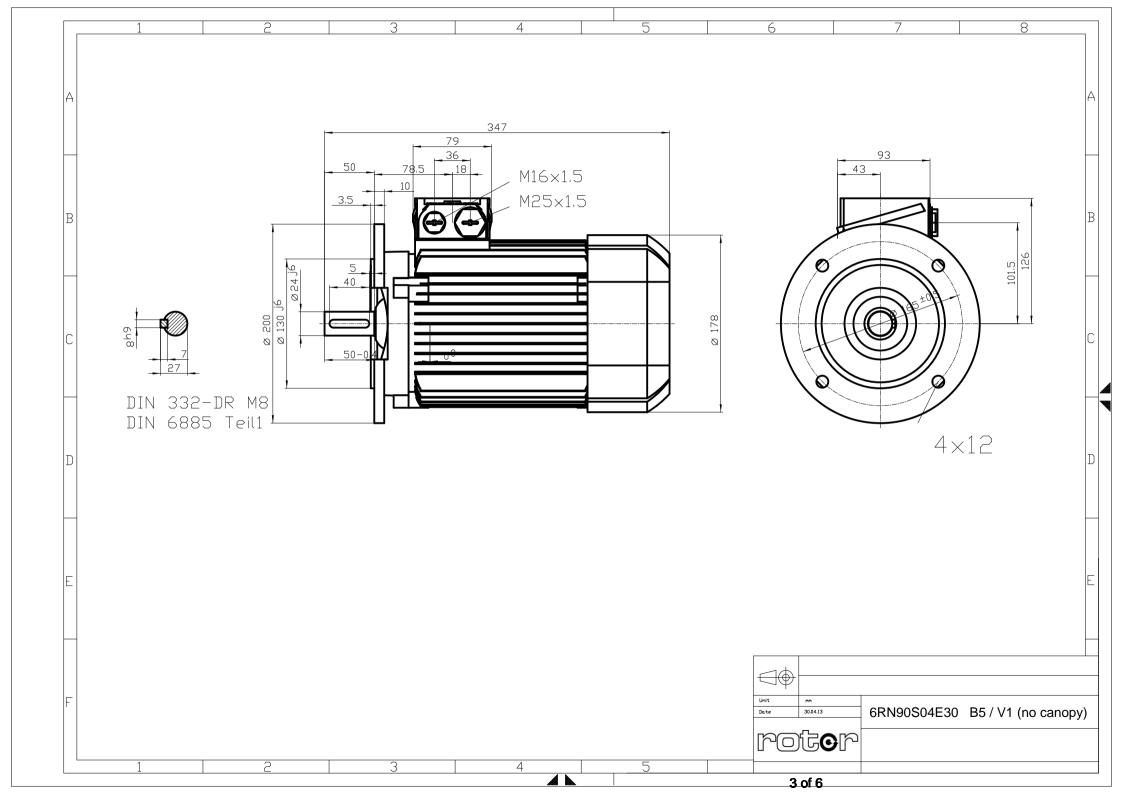
Nameplate Specifications

Output HP	1.5 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	2.43 A	Speed	1445 rpm
Service Factor	1	Phase	3
Efficiency	84.1 %	Power Factor	0.78
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	4	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	6RN90S04E30U463041		

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Datasheet

Model No. 4-Pole cage motor 6RN 90S 1,1kW D400V 50Hz IM3041-FF165

U	Δ/Υ	f	Р	Р	Ι	n	т	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]
400	D	50	1,1	1 1/2	2,43	1445	7,3	IE3	84,5	0,78	6,80	2,31	3,60
690	Y				1,4								
460	D	60	1,27	1,702	2,4	1740	6,98	IE2	85,8	0,79	7,44	2,96	3,75

Motor type	6RN90S04E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	905
Duty	S1
Voltage	400 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 К
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area
Rotor type	Cage motor
Bearing type	6004-2Z/C3WT

Type of grease Unirex N3

Country of origin

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	231%	679%		360%	1,38 A
@ D 460V 60Hz	296%	737%	241%	375%	1.28 A

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

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Degree of protection	IP55
Mounting type	IM3041-FF165
Cooling method	IC411
Motor weight - approx.	17 kg
Gross weight - approx.	18 kg
Motor inertia	0,0028 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	0 dB(A)

Direction of rotation

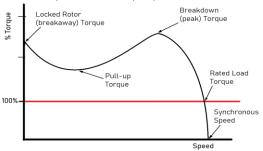
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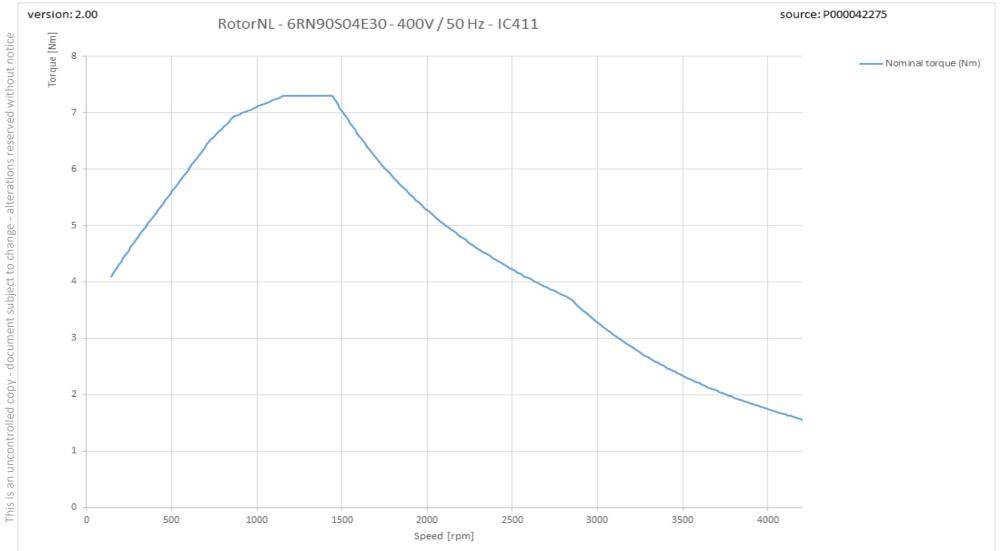
Schematic presentation of torque-speed curve



6RN90S04E30 4-pole 1,10kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

