

# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN132S04E30U46B1089

Catalog No: 6RN132S04E30U46B@1089

5.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,  
132S Frame B3, IC411



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## Nameplate Specifications

Output HP	7.5 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	10.50 A	Speed	1475 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6308-2Z/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	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	38 mm	Shaft Extension	80 mm

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# Datasheet

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Model No. 4-Pole cage motor 6RN 132S 5,5kW D400V 50Hz IM1089

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __load FL 3/4FL 1/2FL	I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>K</sub> /T <sub>N</sub> [pu]
400	D	50	5,5	7,25	10,5	1475	36	IE3	89,6 89,6 88,6	0,84 0,80 0,71	8,20	2,80	3,90
690	Y				6,1								
460	D	60	6,3	8,445	10,4	1775	33,9	IE2	90,5	0,84	7,78	2,30	3,36

Motor type	6RN132S04E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	132S
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	5,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	47 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6308-2Z/C3WT - 6308-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	2,2810 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 400V 50Hz	280%	820%	220%	390%	4,4 A
@ D 460V 60Hz	230%	777%	173%	336%	4,06 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.

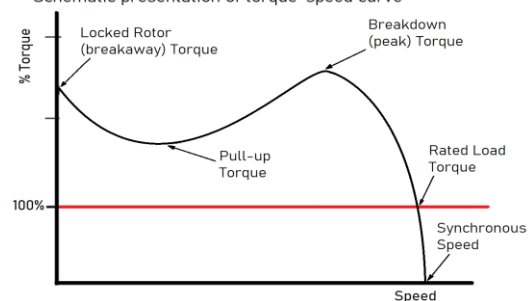
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM1089
Cooling method	IC411
Motor weight - approx.	74 kg
Gross weight - approx.	76 kg
Motor inertia	0,0460 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	57 dB(A)

Direction of rotation	cw /ccw
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Schematic presentation of torque-speed curve



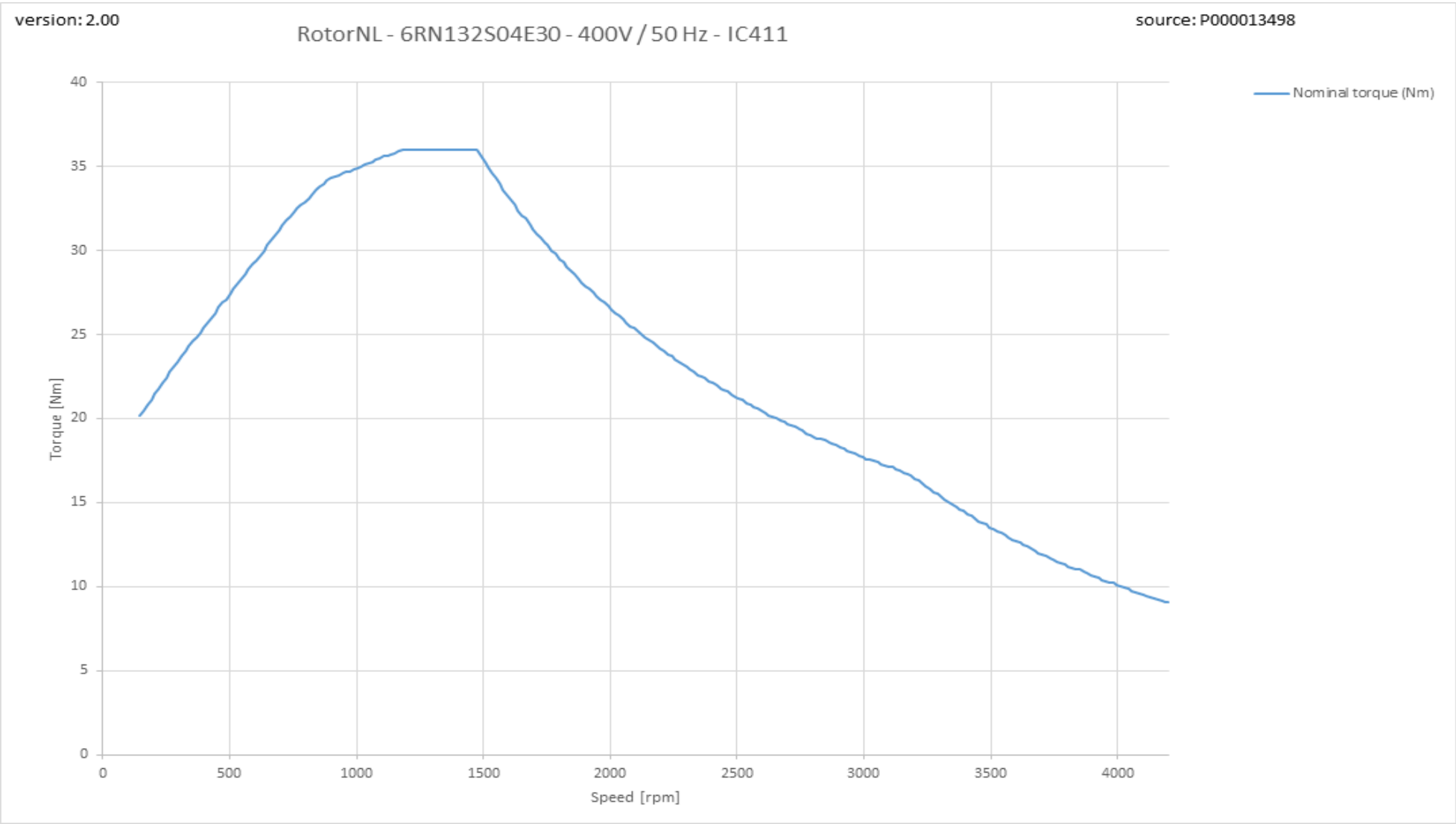
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6RN132S04E30 4-pole 5,5kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm\_VSD graph

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Tn graph

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