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Getriebbau NORD GmbH & Co. KG
Getriebbau-Nord-Straße 1 • 22941 Bargteheide, Germany • www.nord.com

NORDAC PRO – SK 500P (7.5 kW, Size 3)

SK 5xxP-751-340-A-S3



Publisher

Getriebbau NORD GmbH & Co. KG

Getriebbau-Nord-Straße 1 • 22941 Bargteheide, Germany • <http://www.nord.com>/
Fon +49 (0) 45 32 / 289-0 • Fax +49 (0) 45 32 / 289-2253

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Technical Information / Datasheet	Additional Information SK 5xxP, 7.5 kW			
Documentation	TI 70_1801	V 1.0	4720	en

Validity of document

The following information applies for the following types of NORDAC PRO series frequency inverters.

- **SK 5xxP-751-340-A-S3**

These devices essentially correspond to the versions with a rated power of 5.5 kW **SK 5xxP-551-340-A**. These devices are based on the standard firmware of the NORDAC PRO SK 500P series in the current version V1.2 R0.

The following documents are therefore the basis for the device:

1. **BU 0600, edition 1020** (Mat. No.: 6076001)

Safety information, hardware description, installation notes and software description for the basic device

2. **BU 0610, edition 2520** (Mat. No.: 6076101)

Description of the POSICON function

3. **BU 0620, edition 1020** (Mat. No.: 6076201)

Description of Industrial Ethernet

4. **BU 0630, edition 2020** (Mat. No.: 6076301)

for the description of functional safety

5. **BU 0550, edition 1919** (Mat. No.: 6075501)

for the description of PLC functionality

6. and the following information identifying the differences of the device in comparison with **BU 0600** with regard to the hardware description and installation information.

1 General

The following deviations from the manual apply.

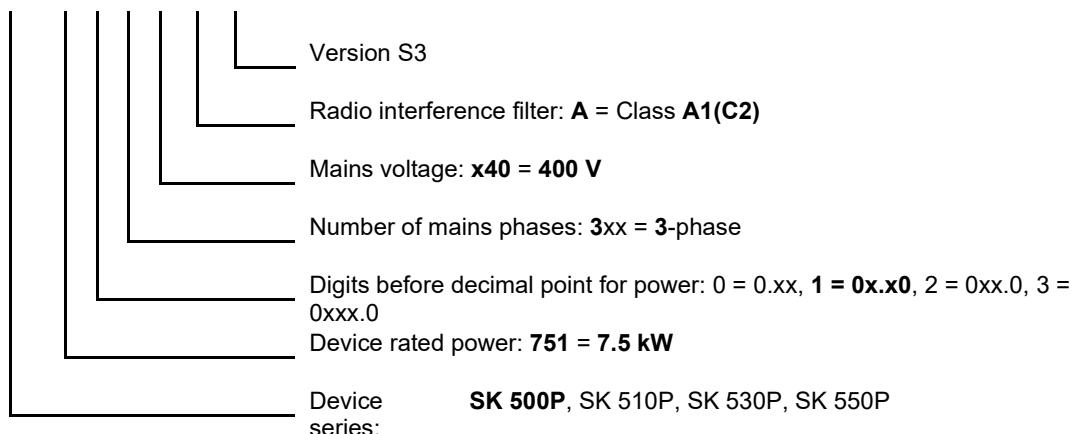
Chapter 1.7 Standards and approvals

There is **no EAC approval** for the devices with a power of 7.5 kW (SK 5xxP-751-340-A-S3).

This can be requested separately from NORD.

Frequency inverter type code (Chapter 1.8)

SK 500P-751-340-A -S3



2 Assembly and installation

The following deviations from the manual apply.

Chapter 2.1 Frequency inverter installation

The frequency inverter is a size 3 device.

The overall and mounting dimensions correspond to those of a device with a power of 5.5 kW.

Device type	Size	Overall dimensions (as delivered)			Fixing dimensions (Wall mounting)			
		A	B	C	D	E1	E2	Ø
		Height	Width	Depth	Hole spacing length	Hole spacing width	Hole spacing edge	Diameter
SK 5xxP-751-340-A-S3	3	286	90.5	174.1	266	–	50	5.5

All dimensions in [mm]

Chapter 2.2 Braking resistor (BR)

The same assignments apply as for a frequency inverter with a rated power of 5.5. kW (SK 5xxP-551-340-A).

Chapter 2.3 Chokes

In preparation.

Chapter 2.4 mains filter

In preparation.

3 Options

No deviations

4 Commissioning

No deviations

5 Parameters

No deviations

6 Operating status messages

No deviations

7 Technical Data

The following deviations from the manual apply.

Chapter 7.1 General data

Function	Specification
Ambient temperature	-10 °C ... +40 °C (S3-70 % ED 10 min)

All other specifications remain unchanged.

Chapter 7.2.2 Electrical data 400 V

Device type	SK 5xxP...	-751-340-A-S3					
	Size	3					
Nominal motor power (4-pole standard motor)	400 V 480 V	7.5 kW 10 hp					
Mains voltage	400 V	3 AC 380 ... 480 V, -20 % / +10 %, 47 ... 63 Hz					
Input current	rms FLA	20.5 A 18.8 A					
Output voltage	400 V	3 AC 0 – Mains voltage					
Output current	rms FLA	16.0 A 14.9 A					
Min. braking resistor	Accessories	44 Ω					
Pulse frequency	Range Factory setting	4 – 16 kHz 6 kHz					
Ambient temperature	S3 70 %, 10 min.	40 °C					
Type of ventilation		Fan, temperature controlled Switching thresholds: ¹⁾ : ON = 57 °C, OFF = 47 °					
Weight	Approx. [kg]	2.6	General fuses (AC) (recommended)				
	Slow-blowing	25 A					
	Fuse Type	I _{sc} kA ²⁾	UL fuses (AC) UL approved				
240 V 480 V 410 V 715 V	Class CB	SIBA 50 215 26 SIBA 20 028 20	5 X	20			
X	J		X		–		
X	RK5		X		30 A		
X		X	X		30 A		
	X		X	X	80 A		

¹⁾ Short test run after connection of the mains voltage

²⁾ Maximum permissible mains short circuit current with mains

8 Additional information

The following deviations from the manual apply.

Chapter 8.3.3 EMC of the device

The same assignments apply as for a frequency inverter with a rated power of 5.5 kW (SK 5xxP-551-340-A).

9 Maintenance and service information

No deviations