

SK700E-151-340-A

NORDAC SK 700E Frequency Inverter

Controls the speed and torque-producing frequency supplied to a three-phase motor within the documented NORDAC SK 700E drive arrangement.

PRODUCT SNAPSHOT

BRAND

Nord

FAMILY

NORDAC SK 700E variable-frequency drive sy

PART

SK700E-151-340-A

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PRODUCT OVERVIEW

Controls the speed and torque-producing frequency supplied to a three-phase motor within the documented NORDAC SK 700E drive arrangement.

1

Delivers variable output voltage from zero to the applied mains level

2

Uses convection cooling in construction size 1

3

Provides an integrated braking-resistor connection for dynamic deceleration

4

Supports parameterized motor control through the NORDAC SK 700E control interfaces

SYSTEM COMPONENTS

Three-phase 380...480 V mains supply

Three-phase induction motor

Specified braking resistor when required

Approved line filter and shielded motor cable

TECHNICAL DATA

PARAMETER	VALUE
Product type	Frequency inverter
Construction size	1
Rated motor power at 400 V	1.5 kW
Rated motor power at 460...480 V	2 hp
Mains voltage	3 AC 380...480 V; -20% / +10%
Mains frequency	47...63 Hz
Output voltage	3 AC 0 V to mains voltage
Output current, RMS	3.6 A
Input current, RMS	6 A

PARAMETER	VALUE
Recommended braking resistance	200 ohm
Minimum braking resistance	90 ohm
Cooling method	Convection
VDE terminal cross-section	4 mm ²
UL/cUL terminal range	AWG 24...10
UL full-load output current	3.4 A
UL Class J fuse	LPJ 10 A
Bottom-mount line filter	SK LF1-460/14-F
Standard line filter	HLD 110-500/8

TECHNICAL NOTE

Isolate the three-phase mains and wait for the DC link to discharge before terminal work; preserve the motor data and parameter set, then verify rotation, acceleration, braking and fault handling under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Conveyor and material-handling drives

Delivers variable output voltage from zero to the applied mains level

Pump and fan speed regulation

Uses convection cooling in construction size 1

Machine-axis retrofit

Provides an integrated braking-resistor connection for dynamic deceleration

Process-equipment motor control

Supports parameterized motor control through the NORDAC SK 700E control interfaces

PRODUCT PRECAUTIONS

- 1 Verify the complete SK700E-151-340-A designation and construction-size 1 enclosure before disconnecting conductors.
- 2 Open the upstream disconnect and confirm the DC link is discharged before touching mains, motor or braking terminals.
- 3 Record the installed motor nameplate data, active parameter set and terminal assignments before replacement.
- 4 Use the documented 4 mm² VDE or AWG 24...10 UL/cUL terminal range and maintain protective-earth continuity.
- 5 Route the motor and braking-resistor conductors separately from low-level control wiring and maintain shield termination.
- 6 Confirm that any SK LF1-460/14-F or HLD 110-500/8 line filter remains in the documented location and wiring order.
- 7 Restore the approved motor, acceleration, deceleration and protection parameters before enabling run commands.
- 8 Commission at controlled speed, verify motor rotation and braking response, and record the final fault-free operating state.

ENGINEER FAQ

Q1 What motor power is assigned to NORD SK700E-151-340-A?

NORD BU 0700 lists 1.5 kW at 400 V and 2 hp at 460...480 V for SK700E-151-340-A.

Q2 Which mains supply is required by NORD SK700E-151-340-A?

The manual specifies a three-phase 380...480 V supply with -20% / +10% voltage tolerance and 47...63 Hz frequency.

Q3 What output current should be used when checking NORD SK700E-151-340-A?

The technical table lists 3.6 A RMS output current; the separate UL table lists 3.4 A full-load output current.

Q4 Which fuse rating is documented for NORD SK700E-151-340-A?

The standard technical table specifies a 10 A mains fuse, while the UL/cUL table identifies an LPJ 10 A Class J fuse.

Q5 Which braking resistor matches NORD SK700E-151-340-A?

BU 0700 lists 200 ohm as the recommended resistance and 90 ohm as the minimum permitted resistance for this drive size.

Q6 What terminal conductor range applies to NORD SK700E-151-340-A?

NORD specifies 4 mm² for VDE wiring and AWG 24...10 for UL/cUL terminal conductors in the applicable size group.

Q7 Which line filters are listed for NORD SK700E-151-340-A?

The manual groups this model with the SK LF1-460/14-F bottom-mount filter and the HLD 110-500/8 standard line filter.

Q8 How should NORD SK700E-151-340-A be commissioned after replacement?

Restore the approved motor and drive parameters, then check rotation, acceleration, deceleration, braking and fault handling with the machine in a controlled state.

SOURCE NORD NORDAC SK 700E Manual with Installation Instructions | BU 0700

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