

INDUSTRIAL AUTOMATION PRODUCT

# 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.

| IDENTITY      | VERIFIED VALUE                                 |
|---------------|------------------------------------------------|
| Manufacturer  | Nord                                           |
| System family | NORDAC SK 700E variable-frequency drive system |
| Part number   | SK700E-151-340-A                               |
| Country       | Germany                                        |
| HS code       | 8537101190                                     |

### APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313  
EMAIL sales13@apterpower.com  
WEBSITE www.apterpower.com



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## Technical Specifications

Technical values below are limited to the named Nord product record.

| 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                           |
| Recommended mains fuse           | 10 A                          |

| PARAMETER                      | VALUE             |
|--------------------------------|-------------------|
| Recommended braking resistance | 200 ohm           |
| Minimum braking resistance     | 90 ohm            |
| Cooling method                 | Convection        |
| VDE terminal cross-section     | 4 mm <sup>2</sup> |
| 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     |

### VERIFIED PRODUCT RECORD

| DATA GROUP                 | VERIFIED VALUE                                                        |
|----------------------------|-----------------------------------------------------------------------|
| Installed host / carrier   | Three-phase 380...480 V mains supply                                  |
| Companion hardware         | Three-phase induction motor                                           |
| Field connection           | Specified braking resistor when required                              |
| Primary system function    | Delivers variable output voltage from zero to the applied mains level |
| Controlled acceptance duty | Conveyor and material-handling drives                                 |

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System Role and Architecture

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

FUNCTION 1

Delivers variable output voltage from zero to the applied mains level

FUNCTION 2

Uses convection cooling in construction size 1

FUNCTION 3

Provides an integrated braking-resistor connection for dynamic deceleration

FUNCTION 4

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

Matched 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

SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                                                       |
|----------------------------|-----------------------------------------------------------------------|
| Installed host / carrier   | Three-phase 380...480 V mains supply                                  |
| Companion hardware         | Three-phase induction motor                                           |
| Field connection           | Specified braking resistor when required                              |
| Primary system function    | Delivers variable output voltage from zero to the applied mains level |
| Controlled acceptance duty | Conveyor and material-handling drives                                 |

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## Applications and Engineering Context

**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

**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.

**MODEL-SPECIFIC ACCEPTANCE EVIDENCE**

| CHECK              | ACCEPTANCE CONDITION                                                  |
|--------------------|-----------------------------------------------------------------------|
| Identity           | SK700E-151-340-A / SK700E-151-340-A recorded                          |
| Physical interface | Three-phase 380...480 V mains supply                                  |
| Companion check    | Three-phase induction motor                                           |
| Functional proof   | Delivers variable output voltage from zero to the applied mains level |
| Application test   | Conveyor and material-handling drives                                 |

## 5 Engineering 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 mm<sup>2</sup> 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.

### CONFIGURATION VERIFICATION MATRIX

- **INSTALLED POSITION** Three-phase 380...480 V mains supply
- **COMPANION HARDWARE** Three-phase induction motor
- **FUNCTIONAL DUTY** Delivers variable output voltage from zero to the applied mains level

### MANUFACTURER SOURCE RECORD

NORD NORDAC SK 700E Manual with Installation Instructions

BU 0700

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- WEBSITE** www.apterpower.com

