NRED-61-E

01 / Voltage adapter identity

Offered product

ABB NRED-61-E is offered as a voltage adapter module for drive power-supply service. The NRED-61 base design connects the DC link to the power-supply path.

Circuit relationship

Source side	Drive DC link
Base-family adapter	NRED-61 voltage-adaptation function
Receiving side	Applicable drive power-supply path

This functional relationship does not specify terminal assignments for the -E version.

Base-design snapshot

Product reference	NRED-61-E
Base design reference	NRED-61
Base component construction	Thick-film hybrid
Base function	Voltage adaptation
Base circuit position	Between DC link and power supply
Base platform context	ACS 600 main-circuit control
Base application class	690 V AC drive units

Preserve the full NRED-61-E marking when comparing the actual installed component.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration and interpretation

Host-unit class

The NRED-61 base design is associated with applicable 690 V AC drive units. This is a host-drive classification, not a separately established input rating of the adapter.

Construction and purpose

The base design uses thick-film hybrid construction and voltage adaptation between the DC link and power supply. It does not replace the drive controller or main switching stage.

Three replacement checks

Identity	Full reference, suffix and additional markings
Connections	Actual terminal positions and conductor arrangement
Installed context	Drive configuration and affected power-supply circuit

Configuration boundary

A shared NRED-family name does not establish interchangeability. Match the offered unit to the actual circuit and controlled replacement information.

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03 / Application and maintenance context

Drive auxiliary-power service

Review the adapter in the DC-link-to-power-supply path when servicing an applicable drive unit. Keep its circuit position separate from the main motor-current path.

690 V unit maintenance

The base NRED-61 application concerns 690 V AC drive units. Confirm the actual unit configuration and adapter identity before selecting a replacement.

Power-supply fault investigation

Inspect the adapter and its connections as part of the affected power-supply path. Investigate DC-link overvoltage events and associated damage before returning the unit to service.

Planned component replacement

Use the installed equipment maintenance plan to schedule adapter inspection and replacement. Retain the full component marking and service history with the drive record.

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04 / Service precautions

Keep the complete suffix

Retain NRED-61-E in the replacement record. Compare its marking and physical arrangement with the installed adapter before disconnecting the original.

Identify the circuit position

Trace the adapter connections between the DC link and power supply. Do not assume a general-purpose resistor or surge-protection device is equivalent.

Remove hazardous stored energy

Apply the drive isolation and capacitor-discharge procedure. Verify the absence of hazardous voltage at the relevant circuit before handling the adapter.

Preserve the connection arrangement

Record terminal positions, supply conductors and mounting details. Restore the approved polarity and connection route without relying on visual similarity alone.

Investigate associated failures

Check the power-supply circuit and history of DC-link overvoltage before replacement. Replacing one damaged adapter does not resolve an upstream cause.

Verify before operational release

Inspect mounting, insulation and connections, then follow the drive test procedure. Confirm stable auxiliary-power operation and resolve faults before resuming normal service.

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NRED-61-E

05 / Unit review and references

Offered-unit review

Request current label, body, terminal and mounting views. Match the complete NRED-61-E marking and any additional revision details with the installed adapter.

Support status

The manufacturing and support phase of the complete NRED-61-E reference is unconfirmed. Obtain current manufacturer replacement guidance; seller availability is separate from lifecycle status.

Technical basis

ABB ACS600 Main Circuit Control Boards, DOCMNACS60029 Rev. C, 27 June 2006; ABB ACN/ACW644+V991 Modules Installation Instruction, 3AFE 6896 2463 Rev. B.

Other ABB product references

ABB NDCU-11CK 64053868B

ABB GINT-6611C 68577349

ABB 1SFA664001R1001 TVOC-2-240

Navigation only. These are not confirmed substitutes, compatible accessories or items included with NRED-61-E.

Maintenance release

Keep the verified adapter identity, restored circuit arrangement and accepted auxiliary-power checks with the drive record.

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