

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB DSSS170 48970001-A

Diode Unit Installation and Verification Guide

ABB DSSS 170 diode unit rated 24 V and 25 A

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB DSSS170 48970001-A
Reference number	48970001-A
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/dsss170-48970001-a>
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24 VDC diode-unit integration path

ABB DSSS 170, product ID 48970001-A, is a Classic-phase diode unit whose exact ABB product page specifies a 24 V, 25 A rating. Its documented system role is the diode-unit function in a compatible ABB control-system power assembly, providing only the exact 24 V DC power-interface behavior defined by the project circuit.

01	Power Path: ABB specifies a 24 V, 25 A diode unit. The exact number and direction of source and load terminals are not public in the cited ABB page and must be taken from the project circuit diagram.
02	System Function: Provides the diode-based power-interface function assigned to 48970001-A in a compatible ABB control-system cabinet.
03	Process Signals: No analog-input, analog-output, digital-input, digital-output, pulse, temperature, pressure, vibration, or communication signal function is published.
04	Processing: No CPU, logic execution, measurement, regulation, or network processing is documented for the exact unit.
05	Unknowns: Polarity map, forward-voltage drop, reverse rating, terminal count, fuse requirements, diagnostic contacts, internal circuit, and allowable source arrangement are unknown from the public ABB source.

Published rating and system boundaries

01	Verification Status: VERIFIED_EXACT_MODEL_AND_PRODUCT_ID_FROM_ABB_OFFICIAL_PRODUCT_PAGE
02	Exact Mapping: ABB maps product ID 48970001-A to DSSS 170 and describes it as 'DSSS 170 Diode Unit, 24 V, 25 A-Classic'.
03	Lifecycle Status: Classic. ABB prints '-Classic' in the exact 48970001-A product description.

Identity and installation checks

01	Confirm DSSS 170 and 48970001-A on the physical ABB label and the project bill of materials before work begins.
02	Treat 24 V and 25 A only as the ratings printed by ABB; do not infer terminal voltage drop, continuous-load derating, short-circuit capacity, or reverse-voltage capability.
03	Isolate, lock out, and prove de-energized every associated DC source and downstream circuit before removing conductors or the unit.
04	Follow the exact ABB/project wiring diagram for terminal identity, polarity, source arrangement, conductor size, fusing, grounding, torque, and clearances.
05	Do not connect the unit as a two-supply redundancy or parallel-source device unless the exact ABB cabinet drawing explicitly shows that topology.
06	Do not substitute DSSR 170, DSSS 171, or an exchange part without a written ABB-approved migration or replacement record.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_AND_PRODUCT_ID_FROM_ABB_OFFICIAL_PRODUCT_PAGE
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Official ABB sources

ABB product page - 48970001-A	https://www.abb.com/global/en/products/48970001-a
ABB Advant Master customer support	https://new.abb.com/control-systems/service/customer-support/advant-master