SDCS-PIN-4-COAT 3ADT314100R1001

Interface Board and Field Supply — complete exact-model product record

Product identity

ABB service documentation identifies article 3ADT314100R1001 as the SDCS-PIN-4 interface board and field-supply assembly for DCS800 modules D1-D4. This release retains the requested SDCS-PIN-4-COAT sales identity; confirm the physical board marking before installation.

Engineering boundary

ABB manuals name article 3ADT314100R1001 as SDCS-PIN-4. Preserve the user-specified COAT designation in the commercial identity, but use the physical label, exact DCS800 frame, voltage class, fuse set and installed wiring as the final replacement controls.

CAPABILITY 1

Common exact-article service board for DCS800 modules D1 through D4, 20 A to 1000 A.

CAPABILITY 2

Combines drive small-voltage supply with armature-bridge firing and measurement interfaces.

CAPABILITY 3

Controls the onboard field bridge and measures DC-side field current for D1-D4 converters.

CAPABILITY 4

Uses three documented KTK-25 field fuses rated 25 A / 600 V.

Technical data matrix

Verified product parameters without trade or logistics data

Commercial model	SDCS-PIN-4-COAT
ABB article number	3ADT314100R1001
ABB documented type	SDCS-PIN-4
Product function	Interface board and field supply
Drive family	DCS800
Exact-article module frames	D1 to D4
Exact-article current span	20 A to 1000 A

Board supply functions	Small-voltage drive and option supplies
Armature interface	Bridge firing, AC/DC voltage and current interfaces
Onboard field supply	Up to 525 VAC
Field AC voltage range	110 to 525 V
Field frequency	50 / 60 Hz
Minimum field current	300 mA
Board fuse set	Three KTK-25 fuses, 25 A / 600 V

Data discipline

Only exact-model manufacturer-supported parameters are included. Trade, logistics, weight and dimensional fields are intentionally excluded.

Applications and workflow

Four engineering uses paired with field-control steps

DCS800 armature control

Provides thyristor firing channels together with the documented AC/DC voltage and armature-current measurement interfaces.

Exact identification

Match SDCS-PIN-4-COAT 3ADT314100R1001 to the physical board label.

Onboard field excitation

Controls the three-phase half-controlled field bridge and measures the DC-side field current in D1-D4 converters.

Maintenance state

Place the converter, motor and field circuit in the approved safe maintenance state.

Drive auxiliary power

Supplies the small internal voltages used by the drive electronics and connected options within the supported assembly.

Configuration capture

Record every connector, fuse, jumper and cable position before removal.

D1-D4 service replacement

Restores the exact 3ADT314100R1001 board position after model, frame, supply and field-circuit checks.

Independent acceptance

Verify armature control and onboard field-current response before release.

Questions and precautions

Model-specific support topics and release controls

What is ABB SDCS-PIN-4-COAT 3ADT314100R1001?

ABB identifies article 3ADT314100R1001 as the SDCS-PIN-4 interface board and field-supply assembly used in DCS800 converter modules.

Which DCS800 frames use ABB SDCS-PIN-4-COAT 3ADT314100R1001?

ABB lists it as common hardware for D1-D4 modules rated from 20 A to 1000 A.

Which functions does ABB SDCS-PIN-4-COAT 3ADT314100R1001 perform?

It supplies small voltages, supports armature firing and measurement, and controls the onboard field interface.

What onboard field voltage applies to ABB SDCS-PIN-4-COAT 3ADT314100R1001?

The exact spare-parts entry states onboard field use up to 525 VAC; hardware data lists 110-525 V.

PRECAUTION 1

Match SDCS-PIN-4-COAT 3ADT314100R1001 to the physical board label.

PRECAUTION 2

Place the converter, motor and field circuit in the approved safe maintenance state.

PRECAUTION 3

Record every connector, fuse, jumper and cable position before removal.

PRECAUTION 4

Match frame, converter current and voltage class to the exact drive nameplate.

PRECAUTION 5

Restore F100-F102 only with the documented KTK-25 fuse arrangement.

PRECAUTION 6

Return jumper S1 and all field/armature connections to the recorded configuration.

PRECAUTION 7

Review auxiliary supply, relay output and DCS800 diagnostics after energization.

PRECAUTION 8

Verify armature control and onboard field-current response before release.

Sources, related products and contact

A traceable handoff for engineering review and procurement support

VERIFIED RELATED ABB PRODUCT PAGES

01 **ABB SDCS-CON-4 3ADT313900R1501**
Open verified ApterPower page

02 **ABB SDCS-IOB-3 3BSE004086R1**
Open verified ApterPower page

03 **ABB SDCS-IOE-2C**
Open verified ApterPower page

04 **ABB SDCS-UCM-1C 3ADT220090R0008**
Open verified ApterPower page

05 **ABB DCF506-0520-51-0000000**
Open verified ApterPower page

MANUFACTURER EVIDENCE BASIS

- ABB DCS800 Service Manual 3ADW000195R0601, Appendix A, p.129
- ABB DCS800 Hardware Manual 3ADW000194R0801, technical data pp.88-92

External manufacturer URLs are intentionally omitted from this document.

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