SDCS-PIN-4-COAT 3ADT314100R1001

Interface Board and Field Supply — exact-model engineering reference

Exact 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.

System role

In a DCS800 power assembly, the board supplies the drive's small internal voltages, controls armature firing and measurement interfaces, and operates the onboard field exciter for the documented D1-D4 frame range.

FUNCTION 1

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

FUNCTION 2

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

FUNCTION 3

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

FUNCTION 4

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

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.

Verified technical parameters

Manufacturer-supported facts for the complete exact model

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

Parameters not supported by the cited exact-model manufacturer record are intentionally omitted.

Engineering applications

Four bounded uses derived from the documented signal and system role

DCS800 armature control

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

Onboard field excitation

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

Drive auxiliary power

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

D1-D4 service replacement

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

Configuration 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.

Acceptance boundary

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

Model-specific technical questions

Eight distinct questions backed by the ABB source record

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.

Which auxiliary voltages can ABB SDCS-PIN-4-COAT 3ADT314100R1001 detect?

For SDCS-PIN-4, jumper S1 in its default position allows automatic detection of 115 VAC or 230 VAC auxiliary input.

Which field fuses are associated with ABB SDCS-PIN-4-COAT 3ADT314100R1001?

The field interface uses F100, F101 and F102; ABB lists three KTK-25 fuses rated 25 A / 600 V for this board position.

How is field current handled by ABB SDCS-PIN-4-COAT 3ADT314100R1001?

The board measures field current on the DC side, while DCS800 firmware automatically selects scaling from the rated motor field current.

What must be verified after installing ABB SDCS-PIN-4-COAT 3ADT314100R1001?

Confirm the exact label, restored connectors and fuses, auxiliary supply selection, drive diagnostics, armature interface and onboard field-current response before release.

Related ABB control-system pages

Verified public navigation links; not parameter evidence for this model

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

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APTER POWER SALES TEAM

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

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