

ABB SDCS-PIN-4B 3ADT316300R1510

Interface Board with Onboard Field Supply

Inside an ABB DCS800 converter, the SDCS-PIN-4B coordinates auxiliary low-voltage supplies, armature-bridge control interfaces, measurement connections and, on D1-D4 frames, the onboard field exciter.

01

DCS800 frame-size D1 to D4+ board architecture

02

230-525 VAC and documented 600 V applications

03

Onboard field-exciter control and measurement on D1-D4

04

Firmware-adjusted measurement and 2-Q / 4-Q settings

CONVERTER POWER

Mains, DC link and auxiliary supplies

SDCS-PIN-4B

Interface, measurement and field functions

CONTROL SYSTEM

Bridge, current and firmware configuration

Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

[ABB DCS800 APOW-01 64493663](#)
[ABB DCS800 DCF803-0035](#)

Documented technical data

Manufacturer	ABB
Type	SDCS-PIN-4B
ABB part number	3ADT316300R1510
Drive platform	DCS800 industrial DC drives
Converter sizes	D1 to D4+
D1-D4 current range	20 A to 1000 A for documented common-board use
D4+ documented variant	1190 A interface board, no field supply
Mains applications	230 V to 525 V and documented 600 V use
Onboard field supply	Available on D1-D4; up to 525 VAC

Auxiliary function	Low-voltage power for drive and options
Bridge interface	Armature-bridge control interface
Voltage measurement	High-ohmic DC and AC voltage measurement
Current interface	Current-transformer connection
Board fuse	KTK 25, 25 A / 600 V
Grounding	Conductive mounting points inside converter module
Configuration	Firmware-adjusted measurement, burden and 2-Q / 4-Q settings
Replacement relation	Documented replacement for SDCS-PIN-4

DATA BOUNDARY

The SDCS-PIN-4B is grounded through conductive mounting points inside the converter module. ABB documentation lists KTK 25, 25 A / 600 V fuses for the board and states that DCS800 firmware adjusts current and voltage measurement, burden-resistor settings and 2-Q / 4-Q operation for the installed converter.

Model-specific application contexts

DCS800 D1-D4 CONVERTER SERVICE

Restore the documented interface and onboard field-supply board in a matched 20 A-1000 A DCS800 assembly.

ONBOARD FIELD EXCITATION

Control the documented D1-D4 field exciter and measure field current within the approved converter configuration.

BRIDGE MEASUREMENT INTERFACE

Connect armature control, high-ohmic voltage measurement and current-transformer signals inside the converter.

D4+ INTERFACE-ONLY SERVICE

Maintain the documented 1190 A D4+ interface arrangement without assuming an onboard field-supply function.

INTEGRATION BOUNDARY

Application depends on the exact converter frame and rating. ABB identifies common D1-D4 use from 20 A to 1000 A with onboard field supply up to 525 VAC, while the documented D4+ 1190 A variant uses the board as an interface without field supply.

Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

[ABB SDCS-IOB-3 C2 3BSE004086R1](#)

[ABB SAFT187CON](#)

Engineering decisions

Q1 What is ABB SDCS-PIN-4B 3ADT316300R1510?

It is the DCS800 interface board that also provides onboard field-supply functions in documented D1-D4 converter modules.

Q2 Which converter sizes use ABB SDCS-PIN-4B?

ABB documents the board for DCS800 frame sizes D1 through D4+, with the installed rating controlling the exact function.

Q3 What changes in the D4+ 1190 A application?

The documented D4+ 1190 A version uses SDCS-PIN-4B as an interface board without the onboard field supply.

Q4 Which supply voltages are documented for SDCS-PIN-4B?

The hardware manual identifies 230 V through 525 V mains applications and documented 600 V use.

STEP 1

Record the complete SDCS-PIN-4B and 3ADT316300R1510 markings.

STEP 2

Apply the approved safe-work procedure and isolate mains, DC link and field energy.

STEP 3

Confirm the DCS800 frame size and exact converter current rating.

STEP 4

Match the installed mains voltage to the documented board application.

Verified related product portfolio

PORTFOLIO NAVIGATION

The catalog links below are verified ApterPower product pages selected to help engineers continue a controlled parts search. They are navigation aids and do not establish compatibility or substitution.

SELECTION BOUNDARY

Confirm the complete SDCS-PIN-4B and 3ADT316300R1510 markings, DCS800 frame size, current rating, supply voltage and field-supply arrangement before work.

Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

[ABB SDCS-CON-1](#)[ABB SDCS-IOB-22 3BSE005177R1](#)[ABB SAMC 11](#)[ABB SNAT601TAI](#)[ABB SNAT603CNT](#)[ABB AINT-02C 68257867](#)[ABB ZCU-14 3AXD50000182992](#)[ABB 5SHX0845F0001](#)[ABB FEN-01 68679273](#)[ABB FEN-21 68679303](#)

Sources, portfolio and contact

SOURCE 1

ABB DCS800 Service Manual, document 3ADW000195R0701, internal-board and spare-parts tables for SDCS-PIN-4b and 3ADT316300R1510.

SOURCE 2

ABB DCS800 Hardware Manual, document 3ADW000194R0801, section Interface board SDCS-PIN-4 / SDCS-PIN-4b.

SOURCE 3

ABB DCS800 Service Manual, document 3ADW000195R0701, fuse table listing KTK 25, 25 A / 600 V for SDCS-PIN-4b.

Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

[ABB FEN-31 68978840](#)

[ABB FCNA-01](#)

[ABB PM632 3BSE005831R1](#)

[ABB PU513V2 3BSE013034R1](#)

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



SDCS-PIN-4B 3ADT316300R1510