

ABB - DCS 500

SDCS-CON-1 3BSE006196R1

DCS 500 Control Board

Verified product identity

ABB SDCS-CON-1 3BSE006196R1 is the DCS 500 control board used for converter control, measurement, communication and thyristor firing functions.

Verified specifications

Manufacturer	ABB
Complete model	SDCS-CON-1 3BSE006196R1
Type designation	SDCS-CON-1
Product ID	3BSE006196R1
Product family	DCS 500
Product type	Control board
Processor	80C186
Control ASIC	DC94L01
System program memory	Flash PROM D33 and D34
Application memory	Flash PROM D35

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Additional verified specifications

Fault and alarm memory	Static RAM
Backup capacitor	1 F
Minimum backup duration	8 hours; typically several days
Backup charging time	Approximately 30 minutes
Serial channels	2 x RS485
Field-exciter channel	X16:1-3
Control-panel channel	X33 or X34; internally parallel
Diagnostics	Seven-segment display and watchdog
Official board outline	23.35 x 19.0 cm (W x H; depth not published)

Selection and installation guidance

- Confirm the DCS 500 converter configuration, installed software, Flash PROM devices, field-exciter arrangement and connected SDCS I/O boards.
- Back up the approved drive parameters and application data before removing the original control board.
- Record every connector and removable memory device so the original wiring and program arrangement can be restored.
- Use the seven-segment indication and watchdog state to diagnose firing, memory and communication faults.

Documented applications

- Main control processing for compatible ABB DCS 500 converters
- Field-exciter communication and converter firing control
- DCS 500 installations using documented SDCS I/O-board arrangements

Dimensions and weight evidence boundary

ABB publishes a 23.35 x 19.0 cm board outline but does not publish the complete three-dimensional size. No official net, kit or package weight was found for the complete model, so no weight value is stated here.