

01 / PLAN THE WORK

The S100 I/O analog output board provides eight configured controller-to-field output channels for documented Advant and MasterPiece control environments.

Work boundary

Signal role	Installed context	Acceptance
Configured measurement or control path	Mating component or rack position	Machine-specific functional check

01 Record the as-found configuration

Capture the installed point and mating components before removal. Apply the authorized isolation and protection-bypass procedure.

Readiness focus

Configuration	Installed channel and companion parts recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source

Related models

ABB AO810V2 3BSE038415R1	Related portfolio reference; verify the complete execution.
ABB TU831V1 3BSE013235R1	Related portfolio reference; verify the complete execution.
ABB DI811 3BSE008552R1	Related portfolio reference; verify the complete execution.
ABB SR511 3BSE000863R1	Related portfolio reference; verify the complete execution.

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02 / PRE-INSTALLATION

Readiness gate

Configuration	Installed channel and companion parts recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed

02 Inspect condition

Check the nameplate, mounting surfaces, connectors, cable or enclosure for damage and contamination. Reject an item whose exact identity or condition cannot be confirmed.

03 Review the source

ABB product detail: eight-channel analog-output function, S100 I/O family and documented Advant and MasterPiece host-system context.

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03 / INSTALL AND CONNECT

04 / Installation check

Verify DSAO 120A and 3BSE018293R1 on the physical ABB label.

05 / Installation check

Confirm the host controller and exact rack position before removal.

06 / Installation check

Isolate affected field circuits and apply the site's lockout procedure.

07 / Installation check

Record terminal, polarity, channel and range assignments before disconnecting wiring.

08 / Installation check

Inspect the board connector and rack mating contacts without touching conductive surfaces.

Documented data to respect

I/O family	S100 I/O
Channels	8 analog outputs
Supported installed-base families	Advant Controller 450; AC460; MasterPiece 200/200-1; 800xA/Compact Product Suite
Module function	Analog output
Signal direction	Controller to field output
Board format	S100 I/O plug-in board

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04 / COMMISSION AND ACCEPT

09 Restore the documented assembly

The board routes configured controller commands to eight analog output channels through the S100 I/O architecture. Commissioning should verify host-system recognition, channel assignment, diagnostics and the response of each connected loop.

10 Perform the functional check

Use the machine procedure to verify the expected static condition, signal path and operating response. A visual inspection alone is not commissioning evidence.

Acceptance record

Configuration	Installed channel and companion parts recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed
Acceptance	Machine-specific functional result recorded

How does ABB DSAO120A 3BSE018293R1 function in the S100 I/O architecture?

It converts controller output commands into eight configured analog output channels for the documented host system.

What should be checked in each output channel of ABB DSAO120A 3BSE018293R1?

Confirm channel assignment, configured signal behavior, diagnostics and the controlled field-loop response.

What signal direction applies to ABB DSAO120A 3BSE018293R1?

The board carries configured analog output commands from the controller toward the connected field loops.

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05 / HANDOVER

What host-system check is required for ABB DSAO120A 3BSE018293R1?

Confirm the controller family, project configuration and S100 I/O assignment before energizing the output loops.

What should be verified after installing ABB DSAO120A 3BSE018293R1?

Verify project recognition, channel configuration, diagnostics and each affected analog loop.

Handover record

Installed point	Rack, channel or measurement location
Configuration	Mating items and relevant option fields
Inspection	Mechanical, cable and connector condition
Test	Authorized functional result and date

Related-product boundary

Recommended models are portfolio references. Compare every ordering field before selection.

Related models

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Manufacturer evidence

ABB product detail: eight-channel analog-output function, S100 I/O family and documented Advant and MasterPiece host-system context.

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