

SDCS-IOB-22 3BSE005177R1

Digital I/O Board

ABB SDCS-IOB-22 3BSE005177R1 is an external digital I/O connection board with eight digital inputs and eight digital outputs. The -22 variant is documented for 115 VAC digital input circuits.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	SDCS-IOB-22 3BSE005177R1
Product role	Digital I/O Board
System family	DCS Drive Control

MANUFACTURER SOURCE RECORDS

- 1. ABB DCS800 Hardware Manual 3ADW000194
- 2. ABB DCS500B/DCS600 Service Manual 3ADW000093

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Product Overview

System function

ABB SDCS-IOB-22 3BSE005177R1 is an external digital I/O connection board with eight digital inputs and eight digital outputs. The -22 variant is documented for 115 VAC digital input circuits.

Eight digital inputs

Receives the documented 115 VAC field input signals through isolated channels.

Eight digital outputs

Provides the documented digital output connection points for the drive control system.

Galvanic grouping

Separates the digital inputs into two isolated electrical groups.

Selectable input timing

Allows DI7 and DI8 time constants to be selected by S7 and S8.

Technical note

Preserve the complete SDCS-IOB-22 3BSE005177R1 identity, both galvanically separate input groups, connector mapping, shielding and the documented cable-length limits.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	SDCS-IOB-22	Input isolation	Galvanic isolation by optocouplers
ABB item	3BSE005177R1	Input groups	2 galvanically separate groups
Product type	Digital I/O connection board	DI7 / DI8 time constant	2 ms or 10 ms by S7 / S8
Digital inputs	8	Mounting	External conductive mounting supports bonded to ground
Digital outputs	8		
Input voltage variant	115 VAC		
		X1-X1 / X2-X2 cable	1.7 m maximum
		X1-X3 cable	0.5 m maximum for EMC

Engineering boundary

Preserve the complete SDCS-IOB-22 3BSE005177R1 identity, both galvanically separate input groups, connector mapping, shielding and the documented cable-length limits.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
DCS drive digital I/O	Connects external 115 VAC digital signals to the documented drive-control hardware.
Isolated input groups	Maintains two galvanically separate digital-input groups.
External board replacement	Restores the recorded connector, grounding and cable arrangement.
Controlled I/O testing	Verifies every digital input and output channel before drive release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is ABB SDCS-IOB-22 3BSE005177R1?	It is an external digital I/O connection board for ABB DCS drive-control systems.
How many inputs does ABB SDCS-IOB-22 3BSE005177R1 provide?	ABB documents eight digital inputs.

Related Products

MODEL	APTER POWER PAGE
ABB DI811	View ABB DI811
ABB TU831V1 3BSE013235R1	View ABB TU831V1 3BSE013235R1
ABB DSBC174 3BSE012211R1	View ABB DSBC174 3BSE012211R1

FAQ, Related Products and Sources

QUESTION	ANSWER
How many outputs does ABB SDCS-IOB-22 3BSE005177R1 provide?	ABB documents eight digital outputs.
Which input voltage applies to ABB SDCS-IOB-22 3BSE005177R1?	The -22 variant is documented for 115 VAC digital inputs.
How are ABB SDCS-IOB-22 3BSE005177R1 inputs isolated?	The digital inputs are galvanically isolated by optocouplers and arranged in two separate groups.
What do S7 and S8 set on ABB SDCS-IOB-22 3BSE005177R1?	They select the 2 ms or 10 ms time constant for DI7 and DI8.
What cable limits apply to ABB SDCS-IOB-22 3BSE005177R1?	ABB specifies 1.7 m for X1-X1 or X2-X2 and 0.5 m for X1-X3 under the documented EMC arrangement.
What confirms ABB SDCS-IOB-22 3BSE005177R1 commissioning?	Grounding, groups, jumper settings and all eight input and output channels must pass controlled tests.

MODEL	APTER POWER PAGE
ABB SR511 3BSE000863R1	View ABB SR511 3BSE000863R1
ABB 07DI92	View ABB 07DI92
ABB 07KT92 JR5250500R0902	View ABB 07KT92 JR5250500R0902

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