AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

SDCS-IOB-21 3ADT220090R0014

Digital Input Output Board

TYPE	REFERENCE	FAMILY	SCOPE
Digital Input Output Board	**SDCS-IOB-21**	**DCS800**	**Scoped technical data**

ABB SDCS-IOB-21 3ADT220090R0014 is a digital I/O board for compatible DCS800 drives, providing eight digital inputs and eight digital outputs. The IOB-21 version uses 24 to 48 V DC input signaling, unlike the AC-input IOB-22 and IOB-23 variants.

01 DOCUMENTED PRODUCT REFERENCE

Digital input channels	8
Digital output channels	8: six relay and two optocoupler-isolated
Nominal input signal range	24 to 48 V DC
Logic zero input range	0 to 8 V
Logic one input range	18 to 60 V, including tolerance; absolute maximum values
Input resistance	4.7 kOhm per input
Input isolation	Optocouplers; two separable reference groups
Selectable input filters	DI7 and DI8, using S7 and S8

Manufacturer data summarized for the identified model and stated conditions.

02 TECHNICAL DATA

Relay output channels	K1-K5 and K8; normally-open contacts
Relay AC contact rating	Up to 250 V AC / 3 A
Relay DC contact rating	Up to 24 V DC / 3 A or 115/230 V DC / 0.3 A
Optocoupler output rating	K6/K7: up to 24 V DC, 50 mA
Internal input supply	48 V DC, up to 50 mA; not isolated from drive electronics
Terminal conductor capacity	X4-X7: up to 4 mm 2
Mounting arrangement	External to converter, with conductive supports bonded to installation ground

03 APPLICATION AND CONFIGURATION

- SDCS-IOB-21 3ADT220090R0014 identity
- Complete supplied article and connection arrangement
- Applicable ratings and required configuration
- Qualified acceptance and functional checks
- Use the applicable manufacturer safety and installation instructions.

04 OFFICIAL DOCUMENTATION

ABB DCS800 Hardware Manual, 3ADW000194R0701 Rev G

IOB21 electrical data:3ADW000194R0701 pp 82-83. Exact 3ADT220090R0014 article corroborated by 3ADW000195R0701 service table 148. No other article substituted.

Independently prepared Amikon reference summary, not an original manufacturer manual. Ratings apply only under their documented conditions. Confirm the supplied marking and approved configuration before selection, installation or replacement.

AMIKON PRODUCT SUPPORT

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