AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

SDCS-POW-1 3ADT220090R0003

Converter Power Supply Board

TYPE	REFERENCE	FAMILY	SCOPE
Converter Power Supply Board	**SDCS-POW-1**	**DCS 500B / DCS 600**	**Scoped technical data**

ABB SDCS-POW-1 3ADT220090R0003 is a switched-mode power supply board for DCS converter electronics. Its flyback circuit supplies the control and associated electronic boards, with a selectable 115 V AC or 230 V AC input rather than a 24 V DC input.

01 DOCUMENTED PRODUCT REFERENCE

Conversion topology	Switched-mode flyback
Nominal AC input	115 V AC or 230 V AC, selected by SW1
Input-voltage tolerance	-15% / +10%
Input frequency	45 to 65 Hz
Apparent power consumption	120 VA
Maximum power loss	60 W
Input inrush current	20 A / 20 ms at 115 V; 10 A / 20 ms at 230 V
Minimum mains buffering	30 ms

Manufacturer data summarized for the identified model and stated conditions.

02 TECHNICAL DATA

Encoder supply selection	5 / 12 / 15 / 24 V; SDCS-CON-2 without SDCS-IOB-3
Encoder sense function	Available at 5 / 12 V; absent at 15 / 24 V
Relay output isolation	X96-DO8; isolated normally-open relay contact
AC relay contact limit	250 V AC maximum; 3 A maximum
DC relay contact limits	24 V DC / 3 A maximum; 115 or 230 V DC / 0.3 A maximum
Relay MOV rating	275 V
Backup supply interface	X95; provision for additional buffering capacitance

03 APPLICATION AND CONFIGURATION

- SDCS-POW-1 and complete article marking
- Correct 115/230 V AC selection
- Applicable encoder and relay configuration
- Qualified isolation and acceptance checks
- Use the applicable manufacturer safety and installation instructions.

04 OFFICIAL DOCUMENTATION

ABB DCS Technical Data, 3ADW000165R0201; section 4.1

Section 4.1, printed III 4-1 / PDF31: SDCS-POW-1 ratings and configuration. 120 VA is consumption, not output power. Encoder choices apply to SDCS-CON-2 without SDCS-IOB-3. Original article retained.

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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