

ABB DCS800 DC DRIVES

Product Data Sheet

SDCS-PIN-51 3ADT220090R0006

current and voltage measuring board

FUNCTION current and voltage measuring board	FAMILY ABB DCS800 DC drives	ORIGIN Switzerland	WEIGHT 0.15 kg
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ABB Drives SDCS-PIN-51 3ADT220090R0006 is a current and voltage measuring board for the ABB DCS800 DC drives. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	3ADT220090R0006
Board Designation	SDCS-PIN-51
Drive Family	DCS800
Companion Board	SDCS-PIN-41
Primary Function	Current, voltage and temperature measurement
Hardware Coding	Power-unit hardware identification
Current Transformer Ratio	2500:1 or 4000:1
Armature Current Range	900 to 5150 A
AC Voltage Inputs	U1, V1 and W1
DC Voltage Inputs	C1+ and D1–

ADDITIONAL PRODUCT DATA

Temperature Input	Power-section temperature feedback
Power-Part Interface	DCS800 converter power section
Measurement Potential	Line-potential measurement circuits
Signal Transfer	Measured values to drive control electronics
Board Variant	Coated measuring board

OFFICIAL APPLICATIONS

- Measure armature conditions in a rolling-mill DC drive: SDCS-PIN-51 acquires current, AC-side voltage, DC-side voltage and power-section temperature signals for a high-current DCS800 converter. These measurements support torque regulation and protection during mill speed changes.
- Supervise a sectional paper-machine DC drive: SDCS-PIN-51 transfers power-section measurements to the DCS800 control electronics as the section follows coordinated line-speed commands. Temperature and electrical feedback support stable web tension across changing production loads.
- Monitor a crane hoist converter power section: SDCS-PIN-51 provides the DCS800 with current, voltage and temperature feedback during hoisting and regenerative lowering. The controller uses those measured values for closed-loop response and converter protection.

SYSTEM COMPATIBILITY

Match SDCS-PIN-51 3ADT220090R0006 to the installed ABB DCS800 DC drives, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

ABB official product documentation

<https://library.e.abb.com/>

AMIKON PRODUCT SUPPORT

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