

ABB DSQC345B 3HAB8101-2

Installation & Commissioning Guide

ABB DSQC345B 3HAB8101-2 is identified in ABB product data as a Drive Unit DC1. It is service hardware for the documented DC1 drive position in an ABB robot-controller power architecture.

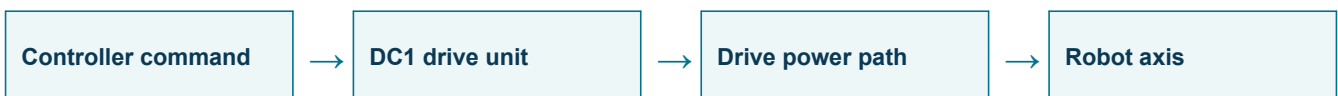
PRODUCT ROLE AND VERIFIED FEATURES

Feature 1 Identified in ABB product data as a Drive Unit DC1.	Feature 2 Serves a defined drive-hardware position in the robot-controller power path.
Feature 3 Requires the original conductors, protective connections and mounting arrangement to be recorded before removal.	Feature 4 Commissioning must confirm controller diagnostics and the commanded drive response before release.

VERIFIED DATA SNAPSHOT

Hardware type	Drive unit
ABB functional designation	Drive Unit DC1
System domain	Robot-controller drive hardware
Commissioning focus	Drive diagnostics and commanded response

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
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Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.



Pre-installation readiness

READINESS GATE

Identity Compare the complete marking with the approved work order and installed record.	System match Confirm the receiving channel, mating components and controlled configuration.
Physical condition Inspect mounting surfaces, connectors, terminals, cable and support hardware.	Work controls Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Hardware type Drive unit	ABB functional designation Drive Unit DC1
System domain Robot-controller drive hardware	Commissioning focus Drive diagnostics and commanded response

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	ABB official product-data search record for 3HAB8101-2
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

- 01 Confirm the complete DSQC345B 3HAB8101-2 marking and installed DC1 drive position.
- 02 Apply the controller's approved isolation procedure and verify the absence of hazardous energy.
- 03 Record every power, protective and control connection before disassembly.
- 04 Inspect terminals, connectors, mounting hardware and the cabinet cooling path before installation.
- 05 Use electrostatic-discharge controls for exposed electronic assemblies and connectors.
- 06 Restore conductor routing, protective connections and mechanical retention exactly as recorded.
- 07 Check controller diagnostics and the expected drive-unit status during controlled power-up.
- 08 Verify interlocks and the commanded robot response before enabling automatic operation.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state Observe status at power-up and check for unexpected fault or alarm indication.	Static value Verify the expected bias, gap, loop, contact or channel value for the application.
Dynamic response Apply the approved machine or test stimulus and confirm response and scaling.	Protection path Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Robot-controller service Restore the documented DC1 drive-unit position during controller maintenance.	Drive-path recovery Re-establish the recorded power and control connections after an exact-identity replacement.
Cabinet refurbishment Inspect the drive-unit mounting, conductors and cooling path during controlled cabinet work.	Functional recommissioning Confirm diagnostics, interlocks and commanded drive behavior before production release.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What function is documented for ABB DSQC345B 3HAB8101-2?	ABB product data identifies the hardware as a Drive Unit DC1.
Which installed position must be confirmed for ABB DSQC345B 3HAB8101-2?	Confirm that the service record calls for the DC1 drive-unit position and the complete identifier.

Release record and technical references

CLOSEOUT QUESTIONS

What should be recorded before removing ABB DSQC345B 3HAB8101-2?	Record each power, protective and control connection, conductor route and mounting point.
Which cabinet conditions should be checked for ABB DSQC345B 3HAB8101-2?	Inspect terminals, connectors, retention hardware and the controller cooling path.
What must be observed during ABB DSQC345B 3HAB8101-2 power-up?	Observe controller diagnostics, drive-unit status and any unexpected fault indication under controlled conditions.
What completes commissioning of ABB DSQC345B 3HAB8101-2?	Confirm interlocks, controller diagnostics and the intended commanded drive response before automatic operation.
Why is connection labeling important for ABB DSQC345B 3HAB8101-2?	The labels preserve the installed power and control path and prevent conductors from being returned to the wrong position.
When should ABB DSQC345B 3HAB8101-2 remain isolated?	Keep it isolated whenever identity, connection records, protective conductors, mounting or diagnostics do not agree with the approved work package.

RELATED MODELS FOR INSTALLATION PLANNING

ABB DSQC609-3HAC14178-1	Installation-planning reference. Review the complete ordering string before selection.
ABB DSQC639 3HAC025097-001	Installation-planning reference. Compare the required interface and system position.
ABB 3HAC061275-001	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	ABB official product-data search record for 3HAB8101-2
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE

Release the equipment only after the responsible site authority accepts the recorded result.

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