CBHX165C 5R 414 Installation & Verification Guide

A field-focused guide for recording, exchanging and proving CBHX165C 5R 414 in its documented ABB ACS800-104 drive charging circuits relationship.

01 Capture the installed arrangement

Record	Required evidence
Exact marking	CBHX165C 5R 414
Installed position	Cabinet, rack, slot, circuit or mechanical location
Companion hardware	Connected module, carrier, socket, protection or field-interface identity
Wiring / interface	Terminal numbers, connector orientation, cable identity and protective earth
Configuration	Approved settings, jumpers, software version and application baseline
Operating baseline	Normal diagnostics, measured values and process response

Pre-removal controls

Discharge the DC link
Prove zero hazardous voltage before service.

Count installed units
Record quantity and resulting circuit resistance.

Check the charging path
Inspect fuses, contactor, resistor wiring and capacitors.

Measure each resistor
Compare resistance and insulation with the approved design.

Restore thermal clearance
Preserve mounting and separation from sensitive parts.

Observe precharge
Verify DC-link rise and bypass timing.

Model-specific checkpoints

Global commercial alias	CBHX 165 C 5R 414
Product ID	64803689
Documented function	Charging resistor
Resistance per resistor	5.00 ohm
Drive family	ACS800-104
Circuit position	DC-bus precharge path
Quantity dependency	Drive type and voltage class
Parallel-equivalent examples	2.50, 1.67, 1.25, 1.00 or 0.83 ohm using multiple units

Installed-system service map

Replacement boundary	Resistor quantity and charging-circuit design
ACS800 DC-link precharge	Limit capacitor inrush before the charging bypass closes.
Parallel resistor assemblies	Build the documented equivalent resistance with the specified number of units.
Charging-circuit fault diagnosis	Check resistor, fuses, contactor and control sequence as one path.

Discuss the complete marking and installed application with Apter Power

sales13@apterpower.com | +86 18030235313

Scan the approved QR code for direct contact and quotation support.

02 Controlled replacement and commissioning sequence

01 Plan	Send the complete CBHX165C 5R 414 marking, revision labels, current-unit photographs and installed position.
02 Isolate	Apply the approved electrical and process isolation; prove the safe state.
03 Record	Photograph labels, terminals, connector positions and the before-removal baseline.
04 Compare	Check complete marking, interface execution and included scope against the retained record.
05 Install	Restore grounding, cable support, clearances and protective parts without forced alignment.
06 Configure	Restore only the approved settings and documented installed-system relationship.
07 Energize	Apply power in the approved sequence and resolve abnormal diagnostics before application enable.
08 Prove	Compare the offered CBHX165C 5R 414 interfaces, ratings and included items with the approved system record before ordering.
09 Handover	Retain readings, photographs, configuration evidence and accepted deviations.

Commissioning and acceptance evidence

Identity	Exact marking and current-unit photographs
Mechanical	Mounting, alignment, clearance and cable-support record
Electrical	Supply, protective earth, terminals, continuity and interface identity
Configuration	Approved settings, application and companion hardware
Functional result	Representative control, communication, relay or protection proof
Release	Technician, date, deviation disposition and handover record

Targeted engineering questions

Which companion devices should be checked after a failed CBHX165C 5R 414?

Inspect the charging fuses, bypass contactor, control circuit, DC-link capacitors and resistor wiring.

How should CBHX165C 5R 414 be measured before installation?

Use an approved low-resistance method and compare each unit with its marking and the cabinet design.

What thermal inspection applies to CBHX165C 5R 414?

Check enclosure discoloration, cracked insulation, loose leads and clearance from heat-sensitive components.

What proves acceptance of CBHX165C 5R 414?

Confirm the installed quantity and resistance, correct precharge timing, DC-link rise and bypass-contactor operation.

Verified related product pages

Recommended product	ABB 63NHG00B-690 3ABD0001782
Recommended product	ABB A50-30-11 1SBL351001R8011
Recommended product	ABB DRM570024LT AU 4CO 24V 3ABD00036448
Recommended product	ABB RCM 230VAC 3C/0 3ABD00029943

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