

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

3X4K7

ABB Capacitor balance resistor

01 PRODUCT IDENTIFICATION

Manufacturer	ABB
Exact model	3X4K7
Product family	ABB ACS510/550 drives
Component class	Capacitor balance resistor
Primary function	Voltage equalizing resistor

02 CONFIRM THE ORDERED CONFIGURATION

Signal or Power Path	DC-link capacitor connection
System Interface	Drive cabinet installation
Mounting Arrangement	Insulated resistor assembly
Configuration Reference	10028493B related marking
Replacement Control	Record wiring and companion hardware
Commissioning Check	Verify balanced capacitor voltages

03 PREPARATION AND SAFETY

Only qualified personnel should install 3X4K7. Isolate every applicable energy source, prove a safe state, use ESD protection where required, and retain the controlled ABB instructions at the work location.

04

MODEL-SPECIFIC INSTALLATION WORKFLOW

1

VERIFY

Confirm the complete 3X4K7 identity and ABB ACS510/550 drives application.

2

DOCUMENT

Record 10028493b related marking, adjacent hardware, labels and connections.

3

ISOLATE

Apply site lockout, discharge, absence-of-voltage and ESD controls appropriate to the equipment.

4

REMOVE

Support the Capacitor balance resistor; release fasteners and connectors without forcing or distorting the assembly.

5

COMPARE

Match DC-link capacitor connection, interfaces, mechanical design and companion hardware.

6

INSTALL

Seat and retain the replacement evenly; restore documented wiring, shields, earth paths or mechanical covers.

7

COMMISSION

Verify balanced capacitor voltages

MANUFACTURER DOCUMENT APPLICABILITY

The appended ABB manufacturer documentation provides the product-family identity, configuration, connection or service information used for this installation reference. Apply only the sections that match the exact installed hardware.

05 PRE-ENERGIZATION AND HANDOVER CHECKLIST

Identity	Exact 3X4K7 and manufacturer markings confirmed
Mechanical	10028493B related marking correctly seated and retained
Connections	Insulated resistor assembly and documented interfaces restored
Configuration	Record wiring and companion hardware reviewed against the approved record
Functional test	Verify balanced capacitor voltages
Documentation	Photos, settings, test results and replaced-part identity retained

06 CONTROLLED DOCUMENTS

ABB MANUFACTURER DOCUMENTATION

Source: <https://www.amikong.com/ABB-c37.html>. Use the manufacturer manual and the site-controlled drawings for terminal functions, torque values, firmware or software conditions, safety limits and final acceptance criteria.

DO NOT INFER UNDOCUMENTED VALUES

Do not infer compatibility, electrical ratings, terminal functions, replacement status or configuration from appearance or a partial model number.

AMIKON PRODUCT SUPPORT

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