

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB BCAN-11 3AXD50000033816

BCAN-11 CANopen Network Integration and Commissioning Guide

ABB BCAN-11 +K495 CANopen Screw-Terminal Interface

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB BCAN-11 3AXD50000033816
Reference number	3AXD50000033816
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

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ACS380 embedded-fieldbus, CANopen PDO/SDO exchange, and machine-network path

ABB BCAN-11, ordering code 3AXD50000033816, is the +K495 preconfigured CANopen interface with screw terminals for the configured ACS380 machinery-drive variant. It connects the ACS380 control program to a CANopen automation network so a CANopen controller can exchange drive commands and references with drive status and actual values, while parameter and diagnostic access is handled through the drive's embedded-fieldbus implementation and the applicable EDS file.

01	Network Signal: CANopen differential bus carried through the BCAN-11 screw-terminal interface; use the exact terminal labels in the host-drive documentation.
02	Cyclic Process Data: Transfers drive commands and reference values from the CANopen controller and returns status and actual values from the ACS380 control program.
03	Acyclic Access: ABB's fieldbus literature states that CANopen supports cyclic and acyclic event-driven communication; use the exact ACS380 firmware/EDS object mapping for parameter and diagnostic access.
04	Drive Mapping: The BCAN-11 control macro uses embedded fieldbus selections such as Fieldbus A commands being replaced by EFB reference paths and parameter 58.01 protocol enable set to CANopen.
05	Variant Warning: Do not publish FCAN-01 CiA 402 selection or connector data as BCAN-11 data unless an exact BCAN-11/ACS380 source states it.

ACS380 configured-drive scope and strict BCAN-11 versus FCAN-01 boundary

01	Verification Status: EXACT_MODEL_AND_ORDER_CODE_VERIFIED
02	Exact Mapping: ABB's ACS380 catalog maps option code +K495, ordering code 3AXD50000033816, and type designation BCAN-11 to CANopen with screw terminals. BCAN-11 is the model; 3AXD50000033816 is the ordering/MRP code, not a second model name.
03	Lifecycle Status: BCAN-11 appears in ABB's current ACS380 catalog, current hardware/manual listings, current EDS download listings, and ABB's 2023 option-module declaration. None of the reviewed exact sources prints an Active, Classic, Limited, or Obsolete phase; do not invent one.

K495 identity, firmware, EDS, screw terminals, node/bit rate, termination, and fault response

01	Only qualified electrical personnel may install or service the drive. Isolate all supplies, wait the ABB-specified discharge time, and verify absence of voltage.
02	Verify BCAN-1I, order code 3AXD50000033816, option +K495, and ACS380-04xC in the complete drive type code.
03	Use the exact ACS380 firmware manual and current BCAN-1I EDS file; back up parameters before changing the communication setup.
04	Do not copy FCAN-01 connector, parameter, profile, node, or compatibility data into a BCAN-1I installation.
05	Use shielded CAN cable, keep signal pairs twisted near the terminals, ground the shield as ABB instructs, and route the network away from motor and power cables.
06	Tighten applicable control/fieldbus terminals to the torque in the exact ACS380 hardware manual; the reviewed current manual specifies 0.5–0.6 N m for the documented control-terminal procedure.

Identity and release controls

Verification Status	EXACT_MODEL_AND_ORDER_CODE_VERIFIED
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Official ABB sources

ABB ACS380 catalog	https://library.e.abb.com/public/5d57cb150e6243dda73bd3220fd64a3a/3AUA0000187460_en_F_ACS380%20catalog.pdf
ACS380 drives hardware manual	https://library.e.abb.com/public/2a86caefc9a646d6ba6be02a51401d7c/EN_ACS380_HW_H.pdf
ACS380 machinery control program firmware manual	https://library.e.abb.com/public/0aad9e7886b7413c9e78a9f9cbda652/AMCK220x_en.pdf
ACS380 quick installation and start-up guide	https://library.e.abb.com/public/89017e1efd3a4d0e99269b016c63cc1b/ZH_ACS380_QG_D_A3.pdf
EU Declaration of Conformity – ABB LV drive options	https://library.e.abb.com/public/ela6374933ff4bf7b13e184d18773338/ABB_LV_DrivesB_options_EU_single_DoC.pdf
ABB drives fieldbus downloads	https://new.abb.com/drives/es/conectividad/fieldbus
ABB general purpose drives ACS580 catalog	https://library.e.abb.com/public/23f124d5399a449fb87ff38a87c6eb97/ACS580_Catalog_3AUA0000145061_RevP_EN%2024-10-2024.pdf