APTER POWER INSTALLATION & VERIFICATION REFERENCE

FCNA-01

Field checklist for deterministic drive communication and redundant media

ENGINEERING LENS	DETERMINISTIC DRIVE COMMUNICATION AND REDUNDANT MEDIA
SYSTEM	ABB drives with ControlNet
SOURCE CONTROL	Manufacturer-published information only

This separate field reference focuses on deterministic drive communication and redundant media. It does not replace the current ABB installation, safety, or commissioning instructions.

Manufacturer	ABB
Prepared by	Apter Power
Document ID	AP-ABB-04-FCNA-01-IV-R1
Revision	R1
Issue date	2026-08-14

1. Pre-Installation Decision Gates

Step	Gate	Required evidence
1	Identity	Match every character of FCNA-01; photograph all labels, revisions, and option markings.
2	Host architecture	Confirm the exact ABB drives with ControlNet rack, slot, controller, project, and approved topology.
3	Primary risk	Document the evidence for deterministic drive communication and redundant media before disconnection or energization.
4	Electrical / signal	Verify supply, signal type, range, polarity, grounding, shielding, pinout, and load from the exact manufacturer document.
5	Lifecycle	ABB maintains a current FCNA-01 product page and current quick-start documentation. Confirm drive-specific compatibility and order availability before selection.
6	Commissioning	Use the manufacturer test procedure, capture measured results, and obtain release authorization before return to service.

Model-Specific Precautions

- Match every character of FCNA-01 to the physical nameplate before work.
- Use the exact ABB manual, wiring drawing, and safety instructions for the installed revision.
- De-energize and apply the required lockout, discharge, ESD, and stored-energy controls before removal.
- Back up firmware, parameters, controller project, calibration, and network settings where applicable.
- Verify supply, signal type, polarity, grounding, shielding, connector pinout, load, and environmental limits.
- Commission with the manufacturer test procedure and record results before returning equipment to service.

2. Wiring, Configuration and Commissioning Record

Record item	Site entry
Physical model / article	
Serial / hardware revision	
Host system / machine	
Rack / slot / physical location	
Supply and grounding checked	
Signal type / range / pinout	
Firmware / project / calibration backup	
Functional or safety test result	
Technician / reviewer / date	

Stop Condition

Do not energize FCNA-01 if any suffix, supply, pinout, host-system assignment, safety classification, or deterministic drive communication and redundant media requirement remains unresolved.

3. Source Basis and Field Handover

Official manufacturer source

ABB FCNA-01 ControlNet adapter module product page, user manual 3AUA0000141650, and quick guide 3AXD50000158201.

https://www.abb.com/global/en/areas/motion/drives/connectivity/fieldbus/controlnet/fcna-01

Handover Checklist

Handover item	Status
Manufacturer document attached	
Nameplate photographs archived	
Project / settings backup archived	
Test evidence approved	
Lifecycle or migration action recorded	

Important Notice

This Apter Power checklist is not a ABB installation instruction. The current manufacturer documentation, physical nameplate, host-equipment manual, safety study, and site procedures control all work.