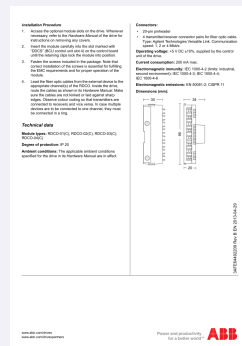


FIELD INSTALLATION QUICK GUIDE

# Installation Instructions

RDCO-02C 3ABD64606956

DDCS communication option module



|          |                                       |
|----------|---------------------------------------|
| PRODUCT  | RDCO-02C 3ABD64606956                 |
| FAMILY   | ABB ACS800 DDCS communication options |
| FUNCTION | DDCS communication option module      |
| STATUS   | Verify exact installed equipment      |

Prepared by Amikon Limited from ACS 800 documentation. This guide supplements the complete manufacturer manual and site procedure.

01

## CONFIRM THE ORDERED CONFIGURATION

|                    |                                  |
|--------------------|----------------------------------|
| Module Variant     | RDCO-02C coated circuit board    |
| ABB Article Number | 3ABD64606956                     |
| Primary Function   | DDCS fiber-optic communication   |
| Host Boards        | RMIO and BCU control units       |
| Channel Count      | Four optical channels: CH0–CH3   |
| CH0 Optical Type   | 5 MBd pair for overriding system |

02

## PREPARATION AND CONNECTION

- Confirm the complete RDCO-02C 3ABD64606956 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

## OFFICIAL INSTALLATION REFERENCE

### Installation Procedure

1. Access the optional module slots on the drive. Whenever necessary, refer to the *Hardware Manual* of the drive for instructions on removing any covers.
2. Insert the module carefully into the slot marked with "DDCS" (BCU control unit slot 4) on the control board until the retaining clips lock the module into position.
3. Fasten the screws included in the package. Note that correct installation of the screws is essential for fulfilling the EMC requirements and for proper operation of the module.
4. Lead the fiber optic cables from the external device to the appropriate channel(s) of the RDCO. Inside the drive, route the cables as shown in its *Hardware Manual*. Make sure the cables are not kinked or laid against sharp edges. Observe colour coding so that transmitters are connected to receivers and vice versa. In case multiple devices are to be connected to one channel, they must be connected in a ring.

### Technical data

**Module types:** RDCO-01(C), RDCO-02(C), RDCO-03(C), RDCO-04(C)

**Degree of protection:** IP 20

**Ambient conditions:** The applicable ambient conditions specified for the drive in its *Hardware Manual* are in effect.

### Connectors:

- 20-pin pinheader
- 4 transmitter/receiver connector pairs for fiber optic cable.  
Type: Agilent Technologies Versatile Link. Communication speed: 1, 2 or 4 Mbit/s

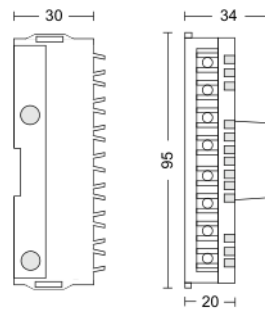
**Operating voltage:** +5 V DC  $\pm 10\%$ , supplied by the control unit of the drive.

**Current consumption:** 200 mA max.

**Electromagnetic immunity:** IEC 1000-4-2 (limits: industrial, second environment); IEC 1000-4-3; IEC 1000-4-4; IEC 1000-4-6

**Electromagnetic emissions:** EN 50081-2; CISPR 11

### Dimensions (mm):



3AFE64492209 Rev B EN 2013-04-29

## 04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

## 05 CONTROLLED DOCUMENT

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Official source | ABB RDCO-01/02/03/04 DDCS Communication Option Modules 3AFE64492209 Rev B |
| Product record  | RDCO-02C 3ABD64606956                                                     |
| Manufacturer    | ACS 800                                                                   |
| Warranty        | 12 months from AMIKON                                                     |
| Support         | INFO@AMIKON.CN                                                            |

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