ABB ABB Series Service Manual

CI869

1. Description

The CI869 is an AC 800M communication interface that connects to the AF 100 field bus through the twisted pair (TWP). The CI869 expansion unit contains the CEX-Bus logic, a communication unit, and a DC/DC converter that supplies the required voltage from +24 V supply through the CEX-Bus. The CI869 can be configured for both redundant cables and redundant communication interfaces.

3. Product Information

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The CI869 communication interface attached to the AC 800M controller provides connectivity to other AC 800M, AC 160 or a connectivity server over AF 100. An AC 800M controller with the communication interface CI869 behaves as an AF 100 station, receiving data from other AF 100 stations/devices. The CI869 has integrated twisted pair modems. CI869 can also be used in an AC 800M High Integrity system.

Features and benefits

The AC 100 OPC Server runs in the Connectivity Server and requires the AF 100 hardware interface CI527A installed in the same node as the AC 100 OPC Server. In the other end you use the CI869 to connect to the AC 800M controller network.

Advant Fieldbus 100 redundancy is supported by using two CI869s.

General info

Article number 3BSE049110R1

Communication protocol ABB's Advant Fieldbus 100

Master or slave Slave

Transmission speed 1.5 Mbit/s

Line redundancy Yes

Module redundancy Yes

Hot Swap Yes

Used together with HI Controller Yes

Detailed data

Max units on CEX bus 12

Connector Twisted Pair (TWP)

24 V consumption typ. typ 160 mA

Environment and certification

Temperature, Operating +5 to +55 °C (+41 to +131 °F)

Temperature, Storage -40 to +70 °C (-40 to +158 °F)

Corrosion protection G3 compliant to ISA 71.04

Protection class IP20 according to EN60529, IEC 529

CE- marking Yes

RoHS compliance -

WEEE compliance DIRECTIVE/2012/19/EU

Dimensions

Width 59 mm (2.3 in.)

Height 185 mm (7.3 in.)

Depth 127.5 mm (5.0 in.)

Weight (including base) 700 g (1.5 lbs)