ABB ABB Series Service Manual

CI873A

1. Description

The CI873A is an AC 800M communication interface that connects to external Ethernet devices using the EtherNet/IP protocol. The TP867 Baseplate has two RJ45 Ethernet connectors, but only the CH1 connector that supports 100Mbps is used. The CI873 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.

3. Product Information

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The CI873A module will only work with System 800xA 6.0.3.3, 6.1.1 and subsequent versions. The CI873A support 6 redundant pairs of CI873A from 5.1 FP4.

Features and benefits

Supports Ethernet/IP and Device Net protocols

Support 6 redundant pairs of CI873A from 5.1 FP4

General info

Article number 3BSE092695R1

Communication protocol EtherNet IP / DeviceNet

Master or slave Master

Transmission speed 10/100 Mbit/s

Line redundancy No

Module redundancy Yes

Hot Swap Yes

Used together with HI Controller Yes

Detailed data

Max units on CEX bus 12

Connector RJ-45 female (8-pin)

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)

Altitude 2000 m according to IEC/EN 61131-2

Pollution degree Degree 2 according to IEC/EN 61131-2

Corrosion protection G3 compliant to ISA 71.04

Relative humidity 5 to 95 %, non-condensing

Protection class IP20 according to EN60529, IEC 529

CE- marking Yes

Electrical Safety UL 61010-1, UL 61010-2-201

Hazardous location UL 60079-15, cULus Class 1, Zone 2, AEx nA IIC T4, ExnA IIC T4Gc X

Marine certificates DNV-GL, (Pending: ABS, BV, LR)

RoHS compliance DIRECTIVE/2011/65/EU (EN 50581:2012)

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)