ABB ABB Series Service Manual

CI855

1. Description

ABB 3BSE018133R1 CI855 (3BSE018133R1)

3. Product Information

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The MasterBus 300 (MB300) communication protocol used in communication between controllers, and operator stations in installations based on Advant OCS with Master software is also implemented in the System 800xA controller AC 800M. MB 300 communication is realized in AC 800M by communication interface CI855, which is connected to the CEX-Bus through a baseplate.

The baseplate, TP853, houses RJ45 connectors for two Ethernet ports, for network redundancy and provides a simple DIN-rail mounting.

A key benefit of the CI855 interface is the possibility of having peer-to-peer communication between new plant sections with System 800xA using the AC 800M controller and existing sections with MB 300-based controllers like Advant Controller 410, Advant Controller 450, and MasterPiece 200/1.

Features and benefits

MB 300 network redundancy

Clock synchronization

DataSet communication

Hot swap

Per to peer communication

General info

Article number 3BSE018106R1

Communication protocol ABB's MasterBus 300

Master or slave Master

Transmission speed 10 Mbit/s, 200 Datasets/s

Line redundancy Yes

Module redundancy No

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 150 mA

Environment and certification

Temperature, Operating 0 to +55 °C (+32 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

Marine certificates BV, DNV-GL, LR

RoHS compliance EU RoHS, UAE RoHS, CN RoHS

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)