ABB ABB Series Service Manual

CI858

1. Description

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3. Product Information

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The DriveBus communication is especially designed for sectional drive applications for ABB rolling mill drive systems, and ABB paper machine control systems. The CI858 is powered by the processor unit, via the CEX-Bus, and therefore does not require any additional external power source.

Features and benefits

DriveBus supports Hot Swap

A maximum of 24 ABB drives can be connected to one CI858 and a maximum of two CI858 can be connected to an AC 800M controller. If more than one ABB drive is connected to the CI858, a branching unit NDBU is needed, which enables the construction of a logical bus with physical star topology. The branching units can be chained.

General info

Article number 3BSE018135R1

Communication protocol ABB's DriveBus

Master or slave Master

Transmission speed 8 Mbit/s

Line redundancy No

Module redundancy No

Hot Swap Yes

Used together with HI Controller No

Detailed data

Max units on CEX bus 2

Connector Optical

24 V consumption typ. typ 200 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

Marine certificates ABS, BV, DNV-GL, 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)