

CI867

System 800xA hardware selector



MODBUS TCP is an open industry standard widely spread due to its ease of use. It is a request response protocol and offers services specified by function codes.

MODBUS TCP combines the MODBUS RTU with standard Ethernet and universal networking standard TCP. It is an application-layer messaging protocol, positioned at level 7 of the OSI model. The CI867/TP867 is used for connection between an AC 800M controller and external Ethernet devices using Modbus TCP protocol.

The CI867 expansion unit contains the CEX-Bus logic, a communication unit and a DC/DC converter that supplies appropriate voltages from the +24 V supply via the CEX-Bus. The Ethernet cable must be connected to the main network through an Ethernet switch.

Features and benefits

- The CI867 can be set redundant and supports hot swap.
- CI867 is a dual channel Ethernet unit; Ch1 supports full duplex with 100 Mbps speed and Ch2 supports half duplex with 10 Mbps speed. Both master and slave functionality are supported.
- A maximum of 70 slave and 8 master units per CI867 (on Ch1 and Ch2 together) can be used.

General info

| | |
|----------------------------------|--------------------------------------|
| Article number | 3BSE043660R1 |
| Protocol | MODBUS TCP |
| Master or slave | Master / Slave |
| Number of channels | 2 channels |
| Transmission speed | 10/100 Mbit/s (Ch1), 10 Mbit/s (Ch2) |
| 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 | 55 °C |
| Protection class | IP20 according to EN60529, IEC 529 |
| CE- marking | Yes |
| Hazardous location | UL 60079-15, cULus Class 1, Zone 2, AEx nA IIC T4, ExnA IIC T4Gc X |
| 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) |

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