

CI867A

ABB Ability™ 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 CI867A/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.

The CI867A module will only work with System 800xA 6.0.3.3, 6.1.1. and subsequent versions.

Features and benefits

- The CI867A can be set redundant and supports hot swap.
- CI867A is a single channel Ethernet unit; Ch1 supports full duplex with 100 Mbps speed. Both master and slave functionality are supported.
- A maximum of 70 slave and 8 master units per CI867A can be used.

| General info | |
|----------------------------------|---------------------|
| Article number | 3BSE092689R1 |
| Communication protocol | MODBUS TCP |
| Master or slave | Master/Slave |
| Number of channels | 1 channel |
| Transmission speed | 10/100 Mbit/s (Ch1) |
| 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) |

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) |

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