DATA SHEET

CI867
Compact Product Suite 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	
Protocol	MODBUS TCP
Article number	3BSE043660R1
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	
Height	185 mm (7.3 in.)
Width	59 mm (2.3 in.)
Depth	127.5 mm (5.0 in.)
Weight (including base)	700 g (1.5 lbs)

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