

DATA SHEET

## **CI871A**

## ABB Ability™ System 800xA® hardware selector



The CI871A is an AC 800M communication interface that connects to the PROFINET IO devices through Ethernet. The TP867 Baseplate has two RJ45 Ethernet connectors, but only the CH1 connector that supports 100Mbps is used for PROFINET IO connection. The Ethernet cable must be connected to the PROFINET IO network through an Ethernet switch.

The CI871 expansion unit contains the CEX-Bus logic, a communication unit, and a DC/DC converter that supplies the required voltage from +24 V supply through the CEX-Bus.

The CI871A module will only work with System 800xA 6.0.3.3, 6.1.1 and subsequent versions

## Features and benefits

• Connects PROFINET IO devices through Ethernet

| General info                     |               |  |
|----------------------------------|---------------|--|
| Article number                   | 3BSE092693R1  |  |
| Communication protocol           | PROFINET IO   |  |
| Master or slave                  | Master        |  |
| Transmission speed               | 10/100 Mbit/s |  |
| 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        | 0 to +55 °C (+32 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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