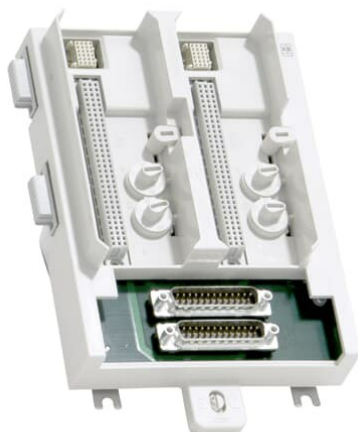


TU852

ABB Ability™ System 800xA® hardware selector



The TU852 is a 16 channel module termination unit (MTU) for redundant S800 I/O modules and for mounting on a horizontal DIN rail. The MTU is a passive unit used for connection of the field wiring to the I/O modules. It also contains a part of the ModuleBus.

The TU842 MTU can have up to 16 I/O channels and process voltage connections. Each channel has two uncommitted I/O connections. Normally S1-16 (signals) on X1A and U1-16 (power out) on X1B. Each DB25 include terminals for ZP, UP and EM.

The MTU distributes the two ModuleBuses to each I/O module and to the next MTU. It also generates the correct address to the I/O modules by shifting the outgoing position signals to the next MTU.

Features and benefits

- Complete installation of I/O modules using 3-wire connections and field power distribution.
- Up to 16 channels of field signals and process power connections.
- Connections to two ModuleBuses and I/O modules.
- Mechanical keying prevents insertion of the wrong I/O module.
- Latching device to DIN rail for grounding.
- DIN rail mounting.

| General info | |
|----------------------|--|
| Article number | 3BSE069964R1 |
| Type | Redundant |
| Connection | 25 pin D-sub |
| Channels | 16 |
| Voltage | 50 V |
| Mounting | Horizontal |
| Mounting detail | 55 ° (131 °F) |
| Use with I/O | AI843, AO845A, DI840, DI880, DO840, DO880 and DP840 |
| Process connections | 16 up to 16 I/O channels (2 terminals per channel), Two D-sub connectors 25 pin (male) |
| Single/redundant I/O | Redundant |

Detailed data

| | |
|------------------------------------|------------|
| Maximum current per I/O channel | 3 A |
| Maximum current process connection | 10 A |
| Dielectric test voltage | 500 V a.c. |

Environment and certification

| | |
|---------------------------------|---|
| CE mark | Yes |
| Electrical safety | EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201 |
| Hazardous Location | ATEX Zone 2 to be released 2016 |
| Marine certification | - |
| Temperature, Operating | 0 to +55 °C (+32 to +131 °F), approvals are issued for +5 to +55 °C |
| Temperature, Storage | -40 to +70 °C (-40 to +158 °F) |
| Pollution degree | Degree 2, IEC 60664-1 |
| Corrosion protection | ISA-S71.04: G3 |
| Relative humidity | 5 to 95 %, non-condensing |
| Max ambient temperature | 55 °C (131 °F) |
| Protection class | IP20 according to IEC 60529 |
| Mechanical operating conditions | IEC/EN 61131-2 |
| EMC | EN 61000-6-4, EN 61000-6-2 |
| Overvoltage categories | IEC/EN 60664-1, EN 50178 |
| Equipment class | Class I according to IEC 61140; (earth protected) |
| RoHS compliance | EN 50581:2012 |
| WEEE compliance | DIRECTIVE/2012/19/EU |

Dimensions

| | |
|--------|---|
| Width | 131 mm (5.16 in.) including connector, 124 mm (4.88 in.) edge to edge installed |
| Depth | 64 mm (2.52 in.) including terminals |
| Height | 186.5 mm (7.34 in.) including locking device |
| Weight | 0.55 kg (1.2 lbs) |

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