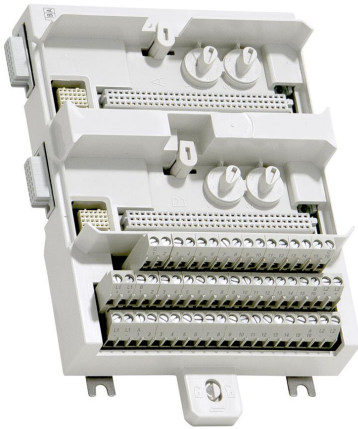


# TU843

## System 800xA hardware selector



The TU843 MTU can have up to 16 I/O channels and 2+2 process voltage connections. Each channel has two I/O connections and one ZP connection. The maximum rated voltage is 50 V and maximum rated current is 3 A per channel.

The MTU distributes the two ModuleBuses, one to each the 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.

The MTU can be mounted on a standard DIN rail. It has a mechanical latch that locks the MTU to the DIN rail.

Four mechanical keys, two for each module, are used to configure the MTU for different types of I/O modules. This is only a mechanical configuration and it does not affect the functionality of the MTU or the I/O module. Each key has six positions, which gives a total number of 36 different configurations.

### 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       | 3BSE021443R1   |
| Type                 | Redundant  |
| Connection           | Terminal block   |
| Channels             | 16   |
| Voltage              | 50 V   |
| Mounting             | Vertical   |
| Mounting detail      | 55 ° (131 °F)  |
| Use with I/O         | AI843, AO845, AO845A, DI840, DI880, DO840, DO880 and DP840   |
| Process connections  | 56<br>up to 16 I/O channels (2 terminals per channel)<br>4 Process power<br>20 Process power (0 V) |
| Single/redundant I/O | Redundant  |

| <b>Detailed data</b>               |   |
|------------------------------------|---|
| Maximum current per I/O channel    | 3 A   |
| Maximum current process connection | 10 A  |
| Acceptable wire sizes              | Solid: 0.2 - 4 mm <sup>2</sup><br>Stranded: 0.2 - 2.5 mm <sup>2</sup> , 24 - 12 AWG<br>Recommended torque: 0.5 - 0.6 Nm<br>Stripping length: 7 mm |
| Dielectric test voltage            | 500 V a.c.  |

| <b>Environment and certification</b> |   |
|--------------------------------------|---|
| CE mark                              | Yes   |
| Electrical safety                    | IEC 61131-2, UL 508   |
| Hazardous Location                   | C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2                                      |
| Marine certification                 | -   |
| Protection rating                    | IP20 according to IEC 60529   |
| Corrosive atmosphere ISA-S71.04      | G3  |
| Climatic operating conditions        | 0 to +55 °C (Storage -40 to +70 °C), RH=5 to 95 % no condensation, IEC/EN 61131-2 |
| Pollution degree                     | Degree 2, IEC 60664-1   |
| 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  |

| <b>Dimensions</b> |  |
|-------------------|--|
| Height            | 186.5 mm (7.34") including locking device                                    |
| Width             | 131 mm (5.16") including connector,<br>124 mm (4.88") edge to edge installed |
| Depth             | 64 mm (2.52") including terminals  |
| Weight            | 0.6 kg (1.3 lbs.)  |

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