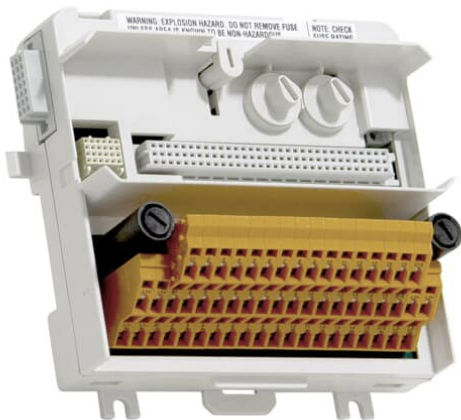


TU833

Compact Product Suite hardware selector



The TU833 MTU can have up to 16 I/O channels and two process voltage connections. Each channel has two I/O connections and one ZP connection. The process voltage can be connected to two individually isolated groups. Each group has a 6.3 A fuse. The maximum rated voltage is 50 V and maximum rated current is 2 A per channel. It is recommended that the fuse rating be chosen to meet the applications needs, see S800 I/O Getting Started chapter Power and Cooling.

The MTU distributes the ModuleBus to the I/O module and to the next MTU. It also generates the correct address to the I/O module 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.

Features and benefits

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

| General info | |
|----------------------|--|
| Article number | 3BSE038726R1 |
| Type | Extended |
| Connection | Crimp Snap-in connector |
| Channels | 16 |
| Voltage | 50 V |
| Mounting | Both directions |
| Mounting detail | 55 °C (131 °F) |
| Use with I/O | AI810, AI815, AI820, AI830, AI830A, AI835, AI835A, AI843, AI845, AO810, AO810V2, AO815, AO820, AO845, AO845A, DI810, DI811, DI814, DI830, DI831, DI840, DI880, DI885, DO810, DO814, DO815, DO840, DO880, DP820 and DP840 |
| Process connections | 56 up to 16 I/O channels (2 terminals per channel) 4 Process power 6.3 A 10 x 2 Process power (0 V) |
| Single/redundant I/O | Single |

Detailed data

| | |
|------------------------------------|---|
| Maximum current per I/O channel | 2 A |
| Maximum current process connection | 5 A |
| Acceptable wire sizes | Solid: 0.2 - 2.5 mm ² , 24 - 12 AWG Stranded: 0.2 - 2.5 mm ² , 24 - 12 AWG Only one wire per terminal Stripping length: 6 mm |
| 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 | C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2 |
| Marine certification | DNV-GL, BV, LR |
| 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 | 126 mm (5 in.) including connector, 120.5 mm (4.74 in.) edge to edge installed |
| Depth | 64 mm (2.52 in.) including terminals |
| Height | 105 mm (4.1 in.) |
| Weight | 0.28 kg (0.6 lbs) |

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