

TU814V1

System 800xA hardware selector



The TU814V1 MTU can have up to 16 I/O channels and two process voltage connections. The maximum rated voltage is 50 V and maximum rated current is 2 A per channel.

The TU814V1 has three rows of crimp snap-in connectors for field signals and process power connections. 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.

Two mechanical keys 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

- 16 channels for 24 V d.c. inputs with current sourcing
- 2 Isolated groups of 8 with voltage supervision
- Input status indicators

| General info | |
|---------------------|---|
| Article number | 3BSE013233R1 |
| Type | Compact |
| Connection | Crimp Snap-in connector |
| Channels | 16 |
| Voltage | 50 V |
| Mounting | Both directions |
| Mounting detail | Horizontal 55 °C (131 °F) Vertical 40 °C (104 °F) |
| Use with I/O | AI810, AI815, AI820, AI830, AI835A, AI835, 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 | 30 up to 16 I/O channels 2 x 2 Process power 2 x 5 Process power (0 V) |

Detailed data

| | |
|------------------------------------|---|
| Maximum current per I/O channel | 2 A |
| Maximum current process connection | 5 A |
| Acceptable wire sizes | Stranded: 0.2 - 0.5 mm ² , 24 - 20 AWG 0.5 - 1.0 mm ² , 20 - 18 AWG 1.5 - 2.5 mm ² , 16 - 14 AWG |
| Dielectric test voltage | 500 V a.c. |

Environment and certification

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|---------------------------------|---|
| CE mark | Yes |
| Electrical safety | IEC 61131-2, UL 61010-1, UL 61010-2-201 |
| Hazardous Location | C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone |
| Marine certification | ABS, BV, DNV-GL, LR |
| 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 |

Dimensions

| | |
|--------|--|
| Width | 64 mm (2.52 in.) including connector, 58.5 mm (2.3 in.) edge to edge installed |
| Depth | 64 mm (2.52 in.), including terminals |
| Height | 170 mm (6.7 in.) including latch |
| Weight | 0.17 kg (0.37 lbs) |

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