

DATA SHEET

## **TU831V1**

## System 800xA hardware selector



The TU831V1 MTU can have up to 8 I/O channels. The maximum rated voltage is 250 V and maximum rated current is 3 A per channel.

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**

- Greater connection area for larger wires.
- Up to 8 isolated channels of field signals.
- 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.

| General info         |   |  |
|----------------------|---|--|
| Article number       | 3BSE013235R1  |  |
| Туре                 | Extended  |  |
| Connection           | Terminal block  |  |
| Channels             | 8   |  |
| Voltage              | 250 V   |  |
| Mounting             | Both directions   |  |
| Mounting detail      | 55 °C (131 °F)  |  |
| Use with I/O         | DI820, DI821, DO820, and DO821                          |  |
| Process connections  | 16<br>up to 8 I/O channels<br>(2 terminals per channel) |  |
| Single/redundant I/O | Single  |  |



| Detailed data                   |  |  |
|---------------------------------|--|--|
| Maximum current per I/O channel | 3 A  |  |
| Acceptable wire sizes           | Solid: 0.2 - 6mm² Stranded: 0.2 - 4 mm², 24-10 AWG Recommended torque: 0.5 - 0.6 Nm Stripping length: 7 mm |  |
| Dielectric test voltage         | 2000 V a.c.  |  |

| Environment and certification   |   |  |
|---------------------------------|---|--|
| CE mark                         | Yes   |  |
| Electrical safety               | IEC 61131-2, UL 508   |  |
| Hazardous Location              | -   |  |
| 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      | 126 mm (5 in.) including connector,<br>120.5 mm (4.74 in.) edge to edge installed |  |
| Depth      | 64mm (2.52 in.) including terminals   |  |
| Height     | 110 mm (4.3 in.)  |  |
| Weight     | 0.22 kg (0.48 lbs)  |  |



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