

DATA SHEET

TU841

ABB Ability™ System 800xA® hardware selector



The TU841 is a module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/TB840A, for use with non-redundant I/O.

The MTU is a passive unit having connections for power supply, a single electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.

Four mechanical keys, two for each position, are used to configured the MTU for the right types of modules. Each key has six positions, which gives a total number of 36 different configurations. The configurations can be changed with a screwdriver.

Termination Unit TU840 connects TB840/TB840A to redundant I/O. Termination Unit TU841 connects TB840/TB840A to non-redundant I/O.

Features and benefits

- · A rotary switch for cluster address setting
- Mechanical keying prevents insertion of wrong module type
- Single ModuleBus connection
- Latching device to DIN rail for locking and grounding
- DIN rail mounted

| General info | |
|------------------------|--|
| Article number | 3BSE020848R11 |
| Communication protocol | Modulebus |
| Master or slave | N/A |
| Line redundancy | Yes |
| Hot Swap | No |
| Туре | Redundant TB840/TB840A, Single I/O, Single Power |
| Power input | 24 V d.c (19.2 - 30 V) |
| Mounting | Vertical or Horizontal |

| Detailed data | | |
|--------------------------------|---|--|
| 24 V consumption typ. | N/A | |
| ModuleBus current distribution | Maximum 5 V 1.5 A 24 V 1.5 A | |
| Mechanical Keys | 36 different combinations | |
| Acceptable wire sizes | Solid: 0.2 - 2.5 mm² Stranded: 0.2 -2.5 mm², 24 -12 AWG Recomended torque: 0.5 Nm | |
| Rated insulation voltage | 50 V | |
| Dialectic test voltage | 500 V a.c | |
| Power dissipation | 2.0 W | |

| Environment and certification | | |
|-------------------------------|---|--|
| CE- marking | Yes | |
| Electrical Safety | EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201 | |
| Hazardous location | cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2 | |
| Marine certificates | ABS, BV, DNV-GL, 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) | |
| Relative humidity | 5 to 95 %, non-condensing | |
| Max ambient temperature | 55 °C (131 °F), for vertical mounting 40 °C (104 °F) | |
| Equipment class | Class I according to IEC 60536; (earth protected) | |
| Ingress protection | IP20 according to IEC 60529 | |
| RoHS compliance | DIRECTIVE/2011/65/EU (EN 50581:2012) | |
| WEEE compliance | DIRECTIVE/2012/19/EU | |

| Dimensions | |
|------------|-----------------------------------|
| Width | 124 mm (4.88 in.) |
| Height | 186 mm (7.32 in.) including latch |
| Depth | 47 mm (1.85 in.) |
| Weight | 0.45 kg (0.99 lbs.) |



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