

TU848

System 800xA hardware selector



The TU848 is a module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/TB840A.

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

Two mechanical keys are used to configure 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 TU848 has individual power supply connections and connects TB840/TB840A to redundant I/O. Termination unit TU849 has individual power supply connections and connects TB840/TB840A to non-redundant I/O.

Features and benefits

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

| General info | |
|-------------------|---|
| Article number | 3BSE042558R1 |
| Protocol | ABB's Modulebus |
| Master or slave | N/A |
| Line redundancy | Yes |
| Module redundancy | Yes |
| Hot Swap | No |
| Type | Redundant TB840/TB840A, Redundant I/O, Dual Power |
| Power input | 24 V d.c (19.2 -30 V) |
| Mounting | Vertical or Horizontal |

Detailed data

| | |
|--------------------------------|---|
| Connector | N/A |
| 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 mm ² Stranded: 0.2 - 2.5 mm ² , 24-12 AWG Recommended torque: 0.5 Nm |
| Rated insulation voltage | 50 V |
| Dialectic test voltage | 500 V a.c |
| Power dissipation | 2.5 W |

Environment and certification

| | |
|------------------------|--|
| Temperature, Operating | 55° C (131° F) horizontal mounted. 40° C (104° F) vertical mounted |
| Temperature, Storage | -25° C (-13° F) to +70° C (158° F) |
| Equipment class | Class I according to IEC 60536; (earth protected) |
| Ingress protection | IP20 according to IEC 60529 |
| CE-marking | Yes |
| Electrical Safety | cULus |
| Hazardous location | cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2 |
| Marine certificates | ABS, BV, DNV-GL, LR |
| RoHS compliance | DIRECTIVE/2011/65/EU (EN 50581:2012) |
| WEEE compliance | DIRECTIVE/2012/19/EU |

Dimensions

| | |
|--------|-------------------------------------|
| Height | 186.5 mm (7.34 in.) including latch |
| Width | 124 mm (4.88 in.) |
| Depth | 47 mm (1.85 in.) |
| Weight | 0.45 kg (0.99 lbs.) |

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