

TU819

ABB Ability™ System 800xA® hardware selector



The TU819 is a 50 V compact module termination unit (MTU) for the S800 I/O system with 32 signal connections. The MTU is a passive unit used for connection of the field wiring. It also contains a part of the ModuleBus.

The TU819 MTU can have up to 32 I/O signals. 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.

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

- Compact installation of I/O modules using D-sub 25 connector.
- 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	3BSE068891R1
Type	Compact
Connection	25 pin D-sub
Channels	32
Voltage	50 V
Mounting	Both directions
Mounting detail	Horizontal 55 °C (131 °F) Vertical 40 °C (104 °F)
Use with I/O	DI818 and DO818
Process connections	Two D-sub connectors 25 pin (male) up to 32 I/O signals
Single/redundant I/O	Single

Detailed data	
Maximum current per I/O channel	2.5 A
Maximum current process connection	L1+ max 8A L2+ max 8A
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	-
Marine certification	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)
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), for vertical mounting 40 °C (104 °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	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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