ABB ABB Series Service Manual

TU860

1. Description

TU860 3BSE078710R1 ABB S800 I/O

3. Product Information

TU860 3BSE078710R1 ABB S800 I/O

S800 I/O is a comprehensive, distributed, and modular process I/O system that communicates with parent controllers over industry-standard fieldbus technology.

The TU860 is an MTU for S800 I/O on Ethernet and connects up to 12 single or redundant S 800I/O Modules and Module Termination Units and hosts single or redundant Ethernet Adapters (TC810, TC811) and Ethernet FCI Communications Interface Modules (CI845s) for reliable communications with the AC 800M process controllers.

Features and benefits

Two mounting slots for connecting single/redundant CI845 FCI modules

Two mounting slots for connecting single/redundant Ethernet Adapters

Two connectors for connecting single/redundant 24 V power supplies

Two Modulebus connectors for connecting the I/O cluster (only S800 I/O modules can be connected)

Mountable on a 35 mm DIN rail

General info

Article number 3BSE078710R1

Communication protocol Ethernet

Type MTU for Ethernet FCI (S800 I/O)

Mechanics Select I/O

Detailed data

Installation in Hazardous Area/Locations Yes/Yes

Environment and certification

Temperature, Operating -40°C (-40°F) to +70°C (158°F)

Temperature, Storage -40°C (-40°F) to +85°C (185°F)

Pollution degree Pollution Degree 2 acc. to IEC 60664-1

Relative humidity 5 to 95 % no condensation

Altitude -1000 to 5000 m (restrictions apply)

Mechanical operating conditions IEC 61131-2

EMC IEC/EN 61000-6-4, IEC/EN 61000-6-2

Overvoltage categories Category II acc. to IEC 60664-1

Protection class IP20 acc. to IEC 60529

CE-marking Yes

UKCA Yes

Electrical Safety IEC/EN 61010-1

UL 61010-1

CSA-C22.2 No. 61010-1-12

IEC/EN 61010-2-201

UL 61010-2-201

CSA C22.2 No. 61010-2-201

Marine certification DNV, ABS

Corrosive atmosphere G3

RoHS compliance EU RoHS, UAE RoHS, CN RoHS

WEEE compliance EU

Hazardous Area ATEX II 3G Ex nA IIC T5 Gc

Hazardous Area IECEx No

Hazardous Location US/CAN cULus

CL I, ZN 2, AEx ec IIC T4 Gc, Ex ec IIC T4 Gc X

CL I, ZN 2, AEx nA IIC T4 Gc, Ex nA IIC T4 Gc X

CL I, DIV 2, Groups A-D T4

Hazardous Area CCC No

Dimensions

Width 135 mm (5.31 in.)

Depth 95.5 mm (3.76 in.)

Height 210 mm (8.26 in.)

Weight (including base) 500 g (1.1 lbs)