ABB ABB Series Service Manual

TU865

1. Description

TU865 3BSE078712R1 ABB Select I/O Ethernet

3. Product Information

TU865 3BSE078712R1 ABB Select I/O Ethernet

Select I/O is an Ethernet networked, single channel granular I/O system for the ABB Ability™ System 800xA automation platform. Select I/O helps decouple project tasks, minimizes the impact of late changes, and supports standardization of I/O cabinetry ensuring automation projects are delivered on time and under budget.

The TU865 is an Ethernet Fieldbus Communication Interface Module Termination Unit (MTU) for connection to up to 12 Select I/O MTUs and hosts single and redundant Ethernet Adapters (TC810, TC811) and Ethernet FCI Communications Interface Modules (CI845s) for reliable communications with the AC 800M controllers. The TU865 also hosts an optional High Integrity Module (HI880) for use in SIL 3 safety applications and mounting is on a vertical DIN rail. One TL814K01 cover plate is included with every TU865.

General info

Article number 3BSE078712R1

Communication protocol Ethernet

Type MTU for Ethernet FCI (Select 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 %, non-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 T4 Gc

II 3G Ex ec IIC T4 Gc

II 3G Ex ic nA IIC T4 Gc

II 3G Ex ic ec IIC T4 Gc

Hazardous Area IECEx Available on IPA:

II 3G Ex nA IIC T4 Gc

II 3G Ex ec IIC T4 Gc

II 3G Ex ic nA IIC T4 Gc

II 3G Ex ic ec IIC T4 Gc

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 Ex ec IIC T4 Gc

Ex ec ic IIC T4 Gc

Dimensions

Width 135 mm

Depth 95.5 mm

Height 210 mm

Weight (including base) 500 g