

PTB810K01

ABB Ability™ System 800xA® hardware selector



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. A Signal Conditioning Module (SCM) performs the necessary signal conditioning and powering of the connected field device for one I/O channel.

The PTB810K01 Power Injection Terminal Block Kit is used for the Select I/O Module Termination Unit (TUS810). Two PTB810s are needed per MTU. Digital output SCMs (DOS810, DOS880, DOS885) and high amp SCMs (DOS885, AIS885) require power injection. (10 pieces per package).

Features and benefits

- Injects 24 V field power to high power SCMs on the MTU
- Can provide up to 20 A.
- Can be used in hazardous areas.
- Hole for each terminal for connecting test probes (for measurements)
- Four screws for daisy chain option of the power supply

General info

| | |
|----------------|--------------------------------|
| Article number | 3BSE088182R1 |
| Type | Power Injection Terminal Block |
| 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 | 41.4 mm (1.63 in.) |
| Depth | 72.6 mm (2.86 in.) |
| Height | 19.2 mm (0.75 in.) |
| Weight (including base) | 38 g (0.08 lbs) |

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