

DATA SHEET

PTB820K01

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 PTB820K01 Power Injection Terminal Block (Red) 120/230 V Kit is used for the Select I/O Module Termination Unit (TUS810). Two PTB820s are needed per MTU. (10 pieces per package).

Features and benefits

- Injects 120/230 V field power to 120/230V SCMs
- Can provide up to 20 A.
- Used for 120/230V applications
- Hole for each terminal for connecting test probes (for measurements)
- Four screws for the daisy-chain option of the power supply

General info

Article number	2PAA125365R1
Type	Power Injection Terminal Block 120/230 V
Mechanics	Select I/O

Detailed data

Installation in Hazardous Area/Locations	No/No
--	-------

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-condensing
Altitude	-1000 to 5000 m (max 3000 m above 150V, restrictions apply)
Mechanical operating conditions	IEC 61131-2
EMC	IEC/EN 61000-6-4, IEC/EN 61000-6-2
Overtoltage 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	N/A
Corrosive atmosphere	G3
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS
WEEE compliance	EU
Hazardous Area ATEX	No
Hazardous Area IECEx	No
Hazardous Location US/CAN	No
Hazardous Area CCC	No

Dimensions

Width	41.4 mm
Depth	72.6 mm
Height	19.2 mm
Weight (including base)	38 g

solutions.abb/800xA
solutions.abb/controlsystems

800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2026 ABB All rights reserved