

Product data sheet

Specifications



power distribution kit, Modicon STB, standard, 24V DC

STBPDT3100K

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon STB distributed I/O solution
Product or Component Type	Standard power distribution kit

Complementary

Kit composition	STBXTS2130, spring type connectors STBPDT3100 module STBXBA2200 base STBXTS1130, screw type connectors
[Us] rated supply voltage	24 V
Supply circuit type	DC
Power supply output current	10 A 113 °F (45 °C) input/output circuit 12 A 86 °F (30 °C) input/output circuit 6 A 158 °F (70 °C) input/output circuit 8 A 140 °F (60 °C) input/output circuit 0...4 A 86 °F (30 °C) input circuit 0...8 A 86 °F (30 °C) output circuit
Voltage range	19.2...30 V DC sensor/actuator bus
Hot swapping fallback	Hot swapping illegal
Protection type	Built-in overcurrent protection, 10 A time-lag output circuit Built-in overcurrent protection, 5 A time-lag input circuit Reverse polarity actuator bus
Permissible current	30 A for 2 minutes grounding terminal
Voltage detection threshold	< 15 V +/-1 DC IN/OUT LED lit >= 15 V +/-1 DC IN/OUT LED non lit
Product Compatibility	Mounting base STBXBA2200
Marking	CE
Overvoltage category	II
Status LED	1 LED (Green) actuator bus power supply (OUT) 1 LED (Green) sensor bus power supply (IN)
Depth	2.6 in (65.1 mm)
Height	4.9 in (125 mm)
Width	0.7 in (18.4 mm)
Net Weight	0.29 lb(US) (0.13 kg)

Environment

Product Certifications	UL FM Class 1 Division 2 CSA
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Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Pollution degree	2 IEC 60664-1
Operating altitude	<= 6561.68 ft (2000 m)
IP degree of protection	IP20 conforming to IEC 61131-2 class 1
Ambient air temperature for operation	32...140 °F (0...60 °C) (without) -13...158 °F (-25...70 °C) (with derating factor)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative humidity	95 % 140 °F (60 °C) without condensation
Vibration resistance	+/-0.35 mm 10...58 Hz 3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail 5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail
Shock resistance	30 gn 11 ms IEC 88 reference 2-27

Ordering and shipping details

Category	US1PC3218215
Discount Schedule	PC32
GTIN	3595863949216
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.98 in (2.5 cm)
Package 1 Width	3.35 in (8.5 cm)
Package 1 Length	5.51 in (14.0 cm)
Package weight(Lbs)	5.3 oz (150.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	8.876 lb(US) (4.026 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	384
Package 3 Height	29.53 in (75.0 cm)
Package 3 Width	23.62 in (60.0 cm)
Package 3 Length	31.50 in (80.0 cm)
Package 3 Weight	166.49 lb(US) (75.52 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

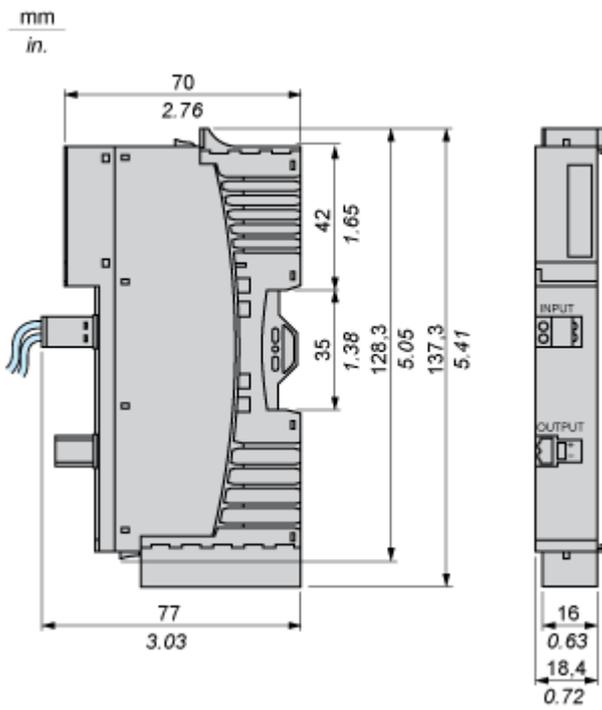
 Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	6830dd70-e4bc-47df-85c7-e41f888576f4
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

 Repack and remanufacture	
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

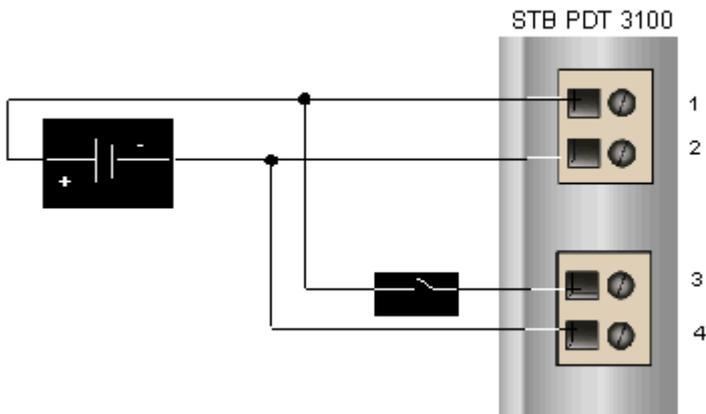


Connections and Schema

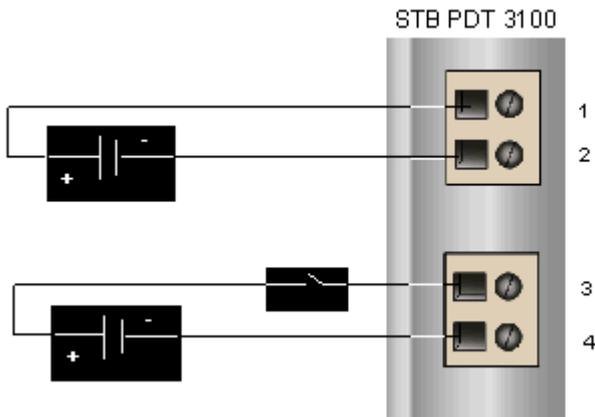
Wiring Diagrams

Examples

Single power supply



Separated power supplies



Pin	Top Connector	Bottom Connector
1	+24 VDC for the sensor bus	+24 VDC for the sensor bus
2	-24 VDC sensor power return	-24 VDC actuator power return

Performance Curves

Performance Curve

