

# Product data sheet

Specifications



## standard digital output kit STB - 24 V DC - 6 O

STBDRA3290K

### Main

**Range of product** Modicon STB distributed I/O solution

**Product or component type** Standard digital output kit

**Kit composition**  
STBXTS1100, 5-terminal screw type connector  
STBXBA2000 base  
STBXTS2110, 5-terminal spring clamp connector  
STBDRA3290 module

**Discrete output number** 2

**Discrete output type** Relay

**Discrete output function** 1 NO + 1 NC

**Discrete output voltage** 24 V  
115...230 V

**Discrete output voltage type** AC  
DC

### Complementary

**Discrete output current** 7000 mA

**Discrete output logic** Positive or negative

**Output voltage** 20...250 V AC  
5...30 V DC

**Response time** 10 ms off-to-on  
10 ms on-to-off

**Switching capacity in VA** 2100 VA resistive

**Mechanical durability** 1000000 cycles

**Electrical durability** 100000 cycles resistive

**Cold swapping** Yes

**Hot swapping** Yes for standard NIMs

**Fallback** State 0 basic NIMs  
User configurable standard NIMs

**Protection type** Coil protection integrated fuse on PDM time lag 10 A  
Output surge protection GMOV

**Insulation between channels** 500 V for 1 minute

**Insulation between channels and logic bus** 1780 V for 1 minute

**Insulation between logic bus and actuator bus** 1500 V for 1 minute

<b>Surge current</b>	20 A 10 ms capacitive
<b>Minimum load</b>	50 mA
<b>Reset</b>	Manual reset COM fault
<b>Product compatibility</b>	I/O base STBXBA3000 Power distribution module STBPDT3100/3105
<b>[Us] rated supply voltage</b>	24 V DC
<b>Supply</b>	Power distribution module
<b>Current consumption</b>	55 mA at 5 V DC for logic bus
<b>Marking</b>	CE
<b>Overvoltage category</b>	II
<b>Status LED</b>	1 LED (green) module status (RDY) 1 LED per channel (green) channel status (OUT1 to OUT2) 1 LED (red) module error (ERR)
<b>Height</b>	28.1 mm
<b>Depth</b>	70 mm
<b>Width</b>	128.3 mm
<b>Net weight</b>	0.13 kg

## Environment

<b>Standards</b>	EN/IEC 61131-2
<b>Product certifications</b>	FM Class 1 Division 2 UL CSA
<b>Pollution degree</b>	2 conforming to IEC 60664-1
<b>Operating altitude</b>	<= 2000 m
<b>IP degree of protection</b>	IP20 conforming to EN 61131-2 class 1
<b>Ambient air temperature for operation</b>	0...60 °C (without derating)  32...140 °F without derating
<b>Ambient air temperature for storage</b>	-40...85 °C without derating  -40...185 °F without derating
<b>Relative humidity</b>	95 % at 60 °C without condensation
<b>Vibration resistance</b>	3 gn at 58...150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58...150 Hz on 35 x 15 mm symmetrical DIN rail +/-0.35 mm at 10...58 Hz
<b>Shock resistance</b>	30 gn for 11 ms conforming to IEC 88 reference 2-27

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.0 cm
<b>Package 1 Width</b>	7.5 cm
<b>Package 1 Length</b>	13.0 cm
<b>Package 1 Weight</b>	197.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	20
<b>Package 2 Height</b>	15.0 cm

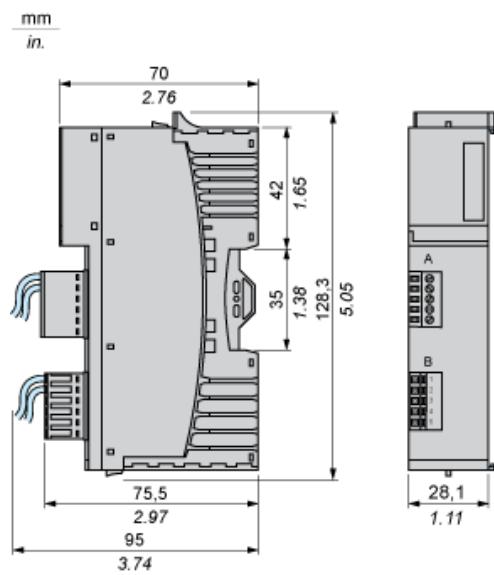
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.366 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	320
Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	320.0 cm
Package 3 Weight	63.04 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	<a href="#">REACh Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	Yes
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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 <a href="#">www.P65Warnings.ca.gov</a>

## Contractual warranty

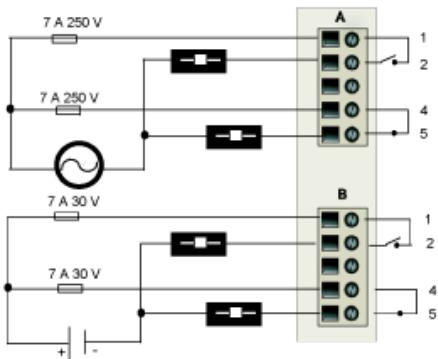
Warranty	18 months
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**Dimensions**

### Wiring Diagram

#### Example

4 two-wire actuators



Pin	Top Connector	Bottom Connector
1	N.O. connection for relay 1	N.O. connection for relay 2
2	N.O. connection for relay 1	N.O. connection for relay 2
3	no connection	no connection
4	N.C. connection for relay 1	N.C. connection for relay 2
5	N.C. connection for relay 1	N.C. connection for relay 2

#### Recommended replacement(s)