

Schneider Service Manual

STBEPI2145K

1. Description

STBEPI2145K

3. Product Information

STBEPI2145K

parallel interface kit STB - 12 I CH - 8 O CH

Main

Range of product Modicon STB distributed I/O solution

Product or component

type

Parallel interface kit

Product specific

application

TeSys Quickfit

TeSys U

Complementary

Kit composition Terminal spring clamp connector

STBXBA3000 base

Terminal screw type connector

STBEPI2145 module

Number of input channels 12

Input voltage 24 V

Input voltage type DC

Input voltage limits 15...30 V at state 1

-3...5 V at state 0

Current state 0 guaranteed ≤ 0.5 mA

Current state 1 guaranteed ≥ 2 mA

Number of output channels 8

Output voltage 24 V

Output voltage type DC

Protection type Power protection integrated fuse on PDM time lag 10 A

Overload protection

Short-circuit protection

Input protection resistor-limited

Cold swapping Yes

Hot swapping Yes for standard NIMs

Fallback State 0 basic NIMs

User configurable standard NIMs

Electrical connection 4 RJ45 connectors

[Us] rated supply voltage 24 V DC

Supply Power distribution module

Product compatibility Power distribution module STBPDT3100/3105

Mounting base STBXBA3000

Current consumption ≤ 100 mA at 24 V DC for sensor bus

≤ 220 mA at 24 V DC for actuator bus for 150 ms

100 mA at 5 V DC for logic bus

50 mA at 24 V DC for actuator bus (with all 8 outputs at state 0)

80 mA at 24 V DC for actuator bus per output at state 1

Marking CE

Overvoltage category II

Status LED 1 LED (green) module status (RDY)

1 LED (red) module error (ERR)

2 LEDs (green) switch position (S1 and S2)

4 LEDs (green) output status

Depth 170 mm

Height 28.1 mm

Width 128.3 mm

Net weight 0.165 kg

Environment

Product certifications FM Class 1 Division 2

UL

CSA

Pollution degree 2 conforming to IEC 60664-1

Operating altitude $\leq$ 2000 m

IP degree of protection IP20 conforming to IEC 61131-2 class 1

Ambient air temperature for operation -25...70 °C (without derating)

Ambient air temperature for storage -40...85 °C

Relative humidity 95 % at 60 °C without condensation

Vibration resistance 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

Shock resistance 30 gn for 11 ms conforming to IEC 88 reference 2-27