

Schneider Series Service Manual

STBDDI3615K

1. Description

basic digital input kit STB - 24 V DC - 6 I

3. Product Information

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STBDDI3615K Schneider Electric

Main

Range of product Modicon STB distributed I/O solution

Product or component type Basic digital input kit

Kit composition STBDDI3615 module

STBXBA1000 base

STBXTS1100, 6-terminal screw type connector

STBXTS2100, 6-terminal spring clamp connector

Discrete input number 6

Discrete input voltage 24 V

Discrete input voltage type DC

Complementary

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

-3...5 V at state 0

Permissible voltage 30 V

Absolute maximum voltage 56 V 1.3 ms

Discrete input current 4.5 mA

Current state 0 guaranteed ≤ 0.5 mA

Current state 1 guaranteed ≥ 2.5 mA

Discrete input logic Positive

Response time 5.25 ms off-to-on

5.75 ms on-to-off

Protection type Reverse polarity protection

Input protection resistor-limited

Power protection integrated fuse on PDM time lag 5 A

Insulation between channels and logic bus

1500 V for 1 minute

Cold swapping Yes

Hot swapping Yes for basic NIMs

Input filtering 5 ms

Product compatibility I/O base STBXBA1000

Power distribution module STBPDT3100/3105

[Us] rated supply voltage 24 V DC

Supply Power distribution module

Current consumption 45 mA 5 V DC logic bus

Marking CE

Overvoltage category II

Status LED 1 LED green module status (RDY)

1 LED per channel green channel status (IN1 to IN6)

Depth 65.1 mm

Height 18.4 mm

Width 125 mm

Product weight 0.112 kg

Environment

Standards EN/IEC 61131-2 type 1

Product certifications CSA

FM Class 1 Division 2

UL

Pollution degree 2 IEC 60664-1

Operating altitude ≤ 2000 m

IP degree of protection IP20 EN 61131-2 class 1

Ambient air temperature for operation 0...60 °C without derating

Ambient air temperature for operation 32...140 °F without derating

Ambient air temperature for storage -40...85 °C without derating

Ambient air temperature for storage -40...185 °F without derating

Relative humidity 95 % 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