

Schneider Service Manual

STBDDI3725KS

1. Description

STBDDI3725KS

3. Product Information

STBDDI3725KS

basic digital input kit STB - 24 V DC - 16 I

Main

Range of product Modicon STB distributed I/O solution

Product or component

type

Basic digital input kit

Kit composition STBXTS1180, 18-terminal screw type connector

STBDDI3725 module

STBXBA3000 base

Discrete input number 16

Discrete input voltage 24 V

Discrete input voltage

type

DC

Complementary

Input voltage limits 11...30 V at state 1

-3...5 V at state 0

Permissible voltage 30 V

Discrete input current 4.5 mA

Current state 0 guaranteed ≤ 1.5 mA

Current state 1 guaranteed ≥ 2.5 mA

Discrete input logic Positive

Response time 2 ms off-to-on

2 ms on-to-off

Protection type Power protection integrated fuse on PDM time lag 5 A

Input protection resistor-limited

Reverse polarity protection

Insulation between channels and logic bus 1500 V for 1 minute

Cold swapping Yes

Hot swapping Yes for basic NIMs

Product compatibility I/O base STBXBA3000

Power distribution module STBPDT3100/3105

[Us] rated supply voltage 24 V DC

Supply Power distribution module

Current consumption 100 mA at 5 V DC for logic bus

Marking CE

Overvoltage category II

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

1 LED per channel (green) channel status (IN1 to IN16)

Depth 65.1 mm

Height 18.4 mm

Width 125 mm

Product weight 0.086 kg

Environment

Standards EN/IEC 61131-2 type 3

Product certifications UL

FM Class 1 Division 2

CSA

Pollution degree 2 conforming to IEC 60664-1

Operating altitude ≤ 2000 m

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

Ambient air temperature for operation -25...70 °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 % 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

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 3.54 cm

Package 1 Width 8.002 cm

Package 1 Length 13.128 cm

Package 1 Weight 210.0 g