

Product data sheet

Specifications



standard digital input module STB - 24 V DC - 4 I

STBDDI3420

! Discontinued on: 09 September 2009

! End-of-service on: 09 September 2009

! Discontinued

Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard digital input module
Discrete input number	4
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
Absolute maximum voltage	56 V 1.3 ms
Discrete input current	8 mA
Current state 0 guaranteed	<= 1.2 mA
Current state 1 guaranteed	>= 2.5 mA
Discrete input logic	Positive or negative
Response time	0.925 ms off-to-on 0.5 ms 1.35 ms on-to-off 0.5 ms
Protection type	Power protection integrated fuse on PDM time lag 10 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 standard NIMs
Input filtering	1 ms 2 ms 4 ms 8 ms 16 ms +/- 0.25 ms
Current supplied by sensor	100 mA per channel
Product compatibility	Power distribution module STBPDT3100/3105 I/O base STBXBA1000
[Us] rated supply voltage	24 V DC

Supply	Power distribution module
Current consumption	45 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 IN4) 1 LED (red)module error (ERR)
Depth	65.1 mm
Height	18.4 mm
Width	125 mm
Net weight	0.111 kg

Environment

Standards	EN/IEC 61131-2type 1+
Product certifications	FM Class 1 Division 2 UL 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

Package 1 Weight	0.066 kg
Package 1 Height	16.000 mm
Package 1 width	65.000 mm
Package 1 Length	130.000 mm

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

STBDDI3420 is replaced by:

1x



standard digital input kit STB - 24 V DC - 4 I
STBDDI3420K