

Schneider  Series Service Manual

ABE7H16S43

1. Description

The Schneider Electric ABE7H16S43 is a passive discrete I/O sub-base designed for modular automation systems. This sub-base is configured with 16 channels and accepts a DC supply voltage in the range of 19 to 30 V, designed for versatile input applications.

2. Specifications

| Specification | Value                                               |
|---------------|-----------------------------------------------------|
| Manufacturer  | Schneider Electric                                  |
| Product       | Type Passive discrete I/O sub-base                  |
| Product       | Line Modicon                                        |
| Part          | Number ABE7H16S43                                   |
| EAN           | 3389110644524                                       |
| Weight        | 1.44 lbs (0.65 kg)                                  |
| Number        | of Terminals per Channel 2                          |
| Sub-base      | Type Input sub-base                                 |
| Supply        | Voltage Type DC                                     |
| Status        | LEDs Green (channel status), Red (blown fuse)       |
| Fuse          | Type 1 A internal fuse, 5 x 20 mm (PLC end)         |
| Number        | of Channels 16                                      |
| Rated         | Supply Voltage 19...30 V                            |
| Connector     | Type HE-10 (20 pins)                                |
| Fixing        | Mode Clips on 35 mm DIN rail, screws on solid plate |
| Supply        | Current <= 1.8 A                                    |
| Voltage       | Drop per Channel <= 0.1 V                           |
| Insulation    | Voltage 2000 V                                      |

3. Product Information

The Schneider Electric ABE7H16S43 is a passive discrete I/O sub-base designed for modular automation systems. This sub-base is configured with 16 channels and accepts a DC supply voltage in the range of 19 to 30 V, designed for versatile input applications.

Technical specifications for ABE7H16S43

Manufacturer Schneider Electric

Product Type Passive discrete I/O sub-base

Product Line Modicon

Part Number ABE7H16S43

EAN 3389110644524

Weight 1.44 lbs (0.65 kg)

Number of Terminals per Channel 2

Sub-base Type Input sub-base

Supply Voltage Type DC

Status LEDs Green (channel status), Red (blown fuse)

Fuse Type 1 A internal fuse, 5 x 20 mm (PLC end)

Number of Channels 16

Rated Supply Voltage 19...30 V

Connector Type HE-10 (20 pins)

Fixing Mode Clips on 35 mm DIN rail, screws on solid plate

Supply Current <= 1.8 A

Voltage Drop per Channel <= 0.1 V

Insulation Voltage 2000 V

Description

The ABE7H16S43 sub-base from Schneider Electric is a passive discrete I/O component engineered for system integration in automation environments. A total of 16 channels are present, with each channel equipped with two terminals for flexible connectivity. Operating on a direct current supply voltage ranging from 19 to 30 V, it is tailored for diverse input tasks.

The sub-base supports a supply current of up to 1.8 A, ensuring enough power for connected devices. Each channel features a low voltage drop, capped at 0.1 V, contributing to overall system efficiency. Additionally, the unit has visible indicators in the form of green LEDs for channel status and red LEDs indicating a blown fuse situation, allowing for easier troubleshooting.

Designed for mounting conveniences, the device can be clipped onto a 35 mm DIN rail or securely fastened to a solid panel using screws. Its connection type utilizes a 20-pin HE-10 connector, facilitating effective integration with compatible systems. The internal fuse type is rated at 1 A and follows a 5 x 20 mm size standard at the PLC end, ensuring protection in case of overcurrent. With an insulation voltage rating of 2000 V, the ABE7H16S43 maintains a high level of operational safety. Additionally, it weighs 0.45 kg, allowing for easy handling during installation.

Range of Product

Modicon ABE7

Product or Component Type

Passive discrete I/O sub-base

Sub-base type

Input sub-base

[Us] rated supply voltage

19...30 V IEC 61131-2

Number of Channels

16

Number of terminal per channel

2

Connections - terminals

Screw type terminals, 1 x 0.09...1 x 1.5 mm² AWG 28...AWG 16) flexible with cable end

Screw type terminals, 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 12) solid

Screw type terminals, 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 14) flexible without cable end

Screw type terminals, 2 x 0.09...2 x 0.75 mm² AWG 28...AWG 20) flexible with cable end

Screw type terminals, 2 x 0.2...2 x 2.5 mm² AWG 24...AWG 14) solid

Channel additional information

1 switch disconnecter per channel

Complementary

supply voltage type

DC

Number of horizontal rows

1

Status LED

1 LED per channel (Green) channel status

1 LED per channel (Red) blown fuse indication

1 LED (Green) power ON

Polarity distribution

24 V

Short-circuit protection

1 A internal fuse, 5 x 20 mm, fast blow PLC end)

0.125 A fuse per channel, 5 x 20 mm, fast blow output circuit)

Connector Type

HE-10

Pin number

20 pins

Fixing mode

By clips (35 mm symmetrical DIN rail)

By screws (solid plate with fixing kit)

Maximum supply current

1.8 A

Current per channel

0.125 A

Maximum current per output common

1.8 A

Voltage drop on power supply fuse

0.3 V

Maximum voltage drop per channel

0.1 V

[Ui] Rated Insulation Voltage

2000 V

Installation category

II IEC 60664-1

Tightening torque

5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm

Width

8.1 in (206 mm)

Height

3.03 in (77 mm)

Depth

2.3 in (58 mm)

Net Weight

1.41 lb(US) (0.64 kg)