

Schneider Service Manual

ABE7R16S210

1. Description

Schneider Electric ABE7R16S210

3. Product Information

Schneider Electric ABE7R16S210

sub-base - soldered electromechanical relays

ABE7 - 16 channels - relay 10 mm

Main

Range of product Modicon ABE7

Product or component

type

Electromechanical output relay sub-base

[Us] rated supply

voltage

24 V DC for PLC end

Number of channels 16

Number of terminal per

channel

2

Complementary

Terminal block type Removable

Polarity distribution Volt-free

Fixing mode By clips (35 mm symmetrical DIN rail)

By screws (solid plate with fixing kit)

Maximum current per output common 10 A

Current per channel 5 A for preactuator end

Minimum switching current 10 mA at ≥ 5 V

Drop-out voltage 2.4 V at 20 °C (PLC end)

Switching frequency ≤ 0.5 Hz

≤ 10 Hz

Threshold tripping voltage 19.7 V at 40 °C

Drop-out current 1 mA at 20 °C

Maximum power dissipation per channel in W 0.36 W (PLC end)

Contacts type and composition 1 NO for preactuator end

Maximum switching voltage 250 V AC 50/60 Hz conforming to IEC 60947-5-1

30 V DC conforming to IEC 60947-5-1

Electrical durability 500000 Cycles, maximum switching current: 600 mA at 24 V DC-13 10 ms

(preactuator end)

500000 Cycles, maximum switching current: 1500 mA at 230 V AC-12

(preactuator end)

500000 Cycles, maximum switching current: 1500 mA at 24 V DC-12

(preactuator end)

500000 cycles, maximum switching current: 900 mA at 230 V AC-15 (preactuator

end)

Electrical reliability 1e-008

Operating time ≤ 10 ms coil energisation and NO closing

≤ 5 ms coil de-energisation and NO opening

Contact bounce time ≤ 5 ms 1 NO

Operating rate in Hz 10 Hz no load

0.5 Hz at I_e

Mechanical durability 20000000 cycles

[Uimp] rated impulse withstand voltage 2.5 kV conforming to IEC 60947-1

[UI] rated insulation voltage 2000 V

Installation category II conforming to IEC 60664-1

Tightening torque 0.6 N.m with flat Ø 3.5 mm screwdriver

Width 206 mm

Net weight 0.405 kg

Environment

Max immunity to microbreaks 5 ms

Dielectric strength 2000 V conforming to IEC 60947-1

Product certifications GL

CSA

DNV

UL

EAC

IP degree of protection IP2X conforming to IEC 60529

Protective treatment TC

Resistance to incandescent wire 750 °C, extinction time <30 s conforming to IEC 60695-2-11

Shock resistance 15 gn for 11 ms conforming to IEC 60068-2-27

Resistance to radiated fields 10 V/m (26000000...1000000000 Hz) conforming to IEC 61000-4-3 level 3

Resistance to fast transients 2 kV level 3 conforming to IEC 61000-4-4

Ambient air temperature for operation -5...60 °C conforming to IEC 61131-2

Ambient air temperature for storage -40...80 °C conforming to IEC 61131-2

Pollution degree 2 conforming to IEC 60664-1

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 7.000 cm

Package 1 Width 8.200 cm

Package 1 Length 21.100 cm

Package 1 Weight 581.000 g