Product datasheet

Specifications



sub-base for plug-in relay ABE7 - 16 channels - relay 12.5 mm



Main

| Range of product | Modicon ABE7 |
|--------------------------------|--|
| Product or component type | Sub-base for plug-in relay |
| Sub-base type | Input sub-base |
| [Us] rated supply voltage | 1930 V conforming to IEC 61131-2 |
| Number of channels | 16 |
| Number of terminal per channel | 2 |
| Connections - terminals | Screw type terminals, 1 x 0.091 x 1.5 mm ² , 0.091.5 mm ² (AWG 28AWG 16) flexible with cable end Screw type terminals, 1 x 0.141 x 2.5 mm ² , 0.142.5 mm ² (AWG 26AWG 12) solid |
| | Screw type terminals, 1 x 0.141 x 2.5 mm ² , 0.142.5 mm ² (AWG 26AWG 14) flexible without cable end |
| | Screw type terminals, 2 x 0.092 x 0.75 mm², 0.090.75 mm² (AWG 28AWG 20) flexible with cable end |
| | Screw type terminals, 2 x 0.22 x 2.5 mm ² , 0.22.5 mm ² (AWG 24AWG 14) solid |

ABE7P16F312

Complementary

| supply voltage type | DC |
|--|--|
| Product compatibility | ABR7 ABS7S33E ABS7E |
| Status LED | 1 LED per channel (green) channel status 1 LED (green) power ON |
| Isolation PLC/operative part | Yes |
| Polarity distribution | Polarity distribution contact common per group of 4 channels |
| Short-circuit protection | 1 A internal fuse, 5 x 20 mm, fast blow (PLC end) |
| Fixing mode | By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit) |
| Maximum supply current | 1 A |
| Voltage drop on power supply fuse | 0.3 V |
| [Uimp] rated impulse withstand voltage | 2.5 kV |
| [Ui] rated insulation voltage | 300 V coil circuit/contact circuits conforming to IEC 60947-1 2000 V terminals/mounting rails |
| Installation category | II conforming to IEC 60664-1 |
| Tightening torque | 0.6 N.m with flat Ø 3.5 mm screwdriver |
| Net weight | 0.85 kg |

Environment

| Product certifications | DNV GL CSA EAC |
|---------------------------------------|--|
| IP degree of protection | IP2X conforming to IEC 60529 |
| Resistance to incandescent wire | 750 °C conforming to IEC 60695-2-11 |
| Shock resistance | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 2 gn (f= 10150 Hz) conforming to IEC 60068-2-6 |
| Resistance to electrostatic discharge | 4 kV (contact) level 3 conforming to IEC 61000-4-2 8 kV (air) level 3 conforming to IEC 61000-4-2 |
| 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 | -560 °C conforming to IEC 61131-2 |
| Ambient air temperature for storage | -4080 °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 | 8.5 cm |
| Package 1 Width | 10.0 cm |
| Package 1 Length | 29.2 cm |
| Package 1 Weight | 786.0 g |
| Unit Type of Package 2 | \$03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 5.141 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

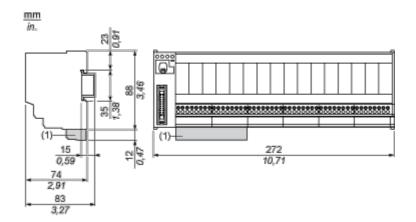
Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |

Product datasheet

Dimensions Drawings

Dimensions

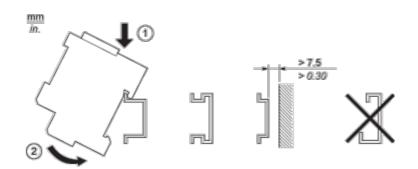


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Product datasheet

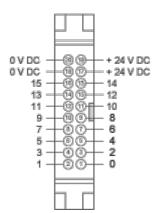
Mounting and Clearance

Mounting

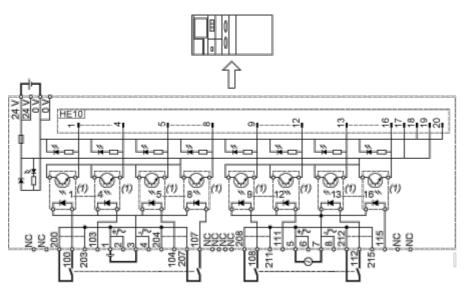


Connections and Schema

HE10 16 Channels

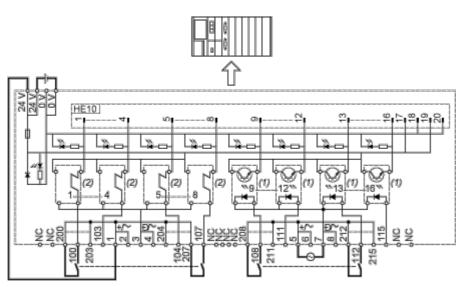


Wiring Diagram



(1) ABS7EC3AL (5 VDC TTL) / ABS7EC3B2 (24 VDC) / ABS7EC3E2 (48 VDC) / ABS7EA3E5 (48 VAC) / ABS7EA3F5 (110/130 VAC) / ABS7EA3M5 (230/240 VAC) (not supplied)

Wiring Diagram



(1) ABS7EC3AL (5 VDC TTL) / ABS7EC3B2 (24 VDC) / ABS7EC3E2 (48 VDC) / ABS7EA3E5 (48 VAC) / ABS7EA3F5 (110/130 VAC) / ABS7EA3M5 (230/240 VAC) (not supplied)

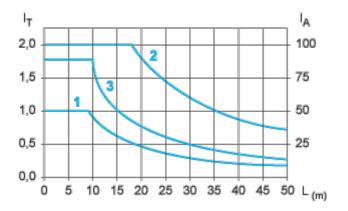
(2) ABE7ACC21 (24 VDC) (not supplied / not isolated)

ABE7P16F312

Performance Curves

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base



- L Cable length
- I_T Total current per sub base (A)
- I_A Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm^2 (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (AWG 26).

The curves are given for a voltage drop of 1 V in the cable. For n volts tolerance, multiply the length determined from the graph by n.