Product data sheet

Specifications





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

ABE7P16F310

Product availability: Stock - Normally stocked in distribution facility

Price*: 653.00 USD

Main

| ····a··· | |
|--------------------------------|--|
| 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 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 mm², 0.00010.002 in² (0.091.5 mm²) AWG 28AWG 16) flexible with cable end Screw type terminals, 1 x 0.141 x 2.5 mm², 0.00020.004 in² (0.142.5 mm²) AWG 26AWG 12) solid Screw type terminals, 1 x 0.141 x 2.5 mm², 0.00020.004 in² (0.142.5 mm²) AWG 26AWG 14) flexible without cable end Screw type terminals, 2 x 0.092 x 0.75 mm², 0.00010.001 in² (0.090.75 mm²) AWG 28AWG 20) flexible with cable end Screw type terminals, 2 x 0.22 x 2.5 mm², 0.00030.004 in² (0.22.5 mm²) AWG 24AWG 14) solid |

Complementary

| supply voltage type | DC |
|--|--|
| Product Compatibility | ABS7S33E ABR7 ABS7E |
| Status LED | 1 LED per channel (Green) channel status 1 LED (Green) power ON |
| Isolation PLC/operative part | Yes |
| Polarity distribution | Volt-free |
| 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 IEC 60947-1 2000 V terminals/mounting rails |
| Installation category | II IEC 60664-1 |
| Tightening torque | 5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm |
| Width | 10.7 in (272 mm) |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| Height | 3.5 in (89 mm) |
|------------|-----------------------|
| Depth | 2.9 in (74 mm) |
| Net Weight | 1.87 lb(US) (0.85 kg) |

Environment

| Product Certifications | GL DNV CSA UL EAC |
|---------------------------------------|--|
| IP degree of protection | IP2X conforming to IEC 60529 |
| Resistance to incandescent wire | 1382.0000000000 °F (750 °C) IEC 60695-2-11 |
| Shock resistance | 15 gn 11 ms IEC 60068-2-27 |
| Vibration resistance | 2 gn 10150 Hz)IEC 60068-2-6 |
| Resistance to electrostatic discharge | 4 kV contact) level 3 IEC 61000-4-2 8 kV air) level 3 IEC 61000-4-2 |
| Resistance to radiated fields | 9.1 V/m (10 V/m) 260000001000000000 Hz)IEC 61000-4-3 level 3 |
| Resistance to fast transients | 2 kV level 3 IEC 61000-4-4 |
| Ambient air temperature for operation | 23.0000000000140.0000000000 °F (-560 °C) IEC 61131-2 |
| Ambient air temperature for storage | -40.0000000000176.0000000000 °F (-4080 °C) IEC 61131-2 |
| Pollution degree | 2 IEC 60664-1 |

Ordering and shipping details

| Category | US10CP222375 |
|-------------------|---------------|
| Discount Schedule | 0CP2 |
| GTIN | 3389110705164 |
| Returnability | Yes |
| Country of origin | LV |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|--------------------------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.346 in (8.500 cm) |
| Package 1 Width | 3.937 in (10.000 cm) |
| Package 1 Length | 11.496 in (29.200 cm) |
| Package 1 Weight | 27.866 oz (790.000 g) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 11.811 in (30.000 cm) |
| Package 2 Width | 11.811 in (30.000 cm) |
| Package 2 Length | 15.748 in (40.000 cm) |
| Package 2 Weight | 11.554 lb(US) (5.241 kg) |

Contractual warranty

Warranty

Jul 19, 2024

18 months

Sustainability Green 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

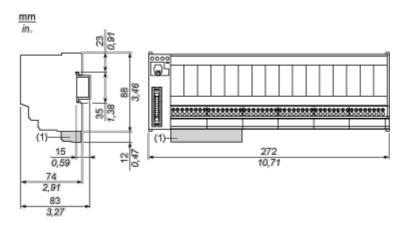
Yes

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. |
| Weee Circularity Profile | · · · · · · · · · · · · · · · · · · · |

Dimensions Drawings

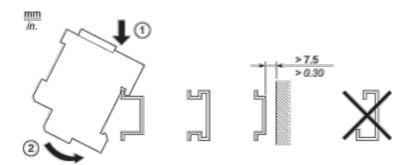
Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

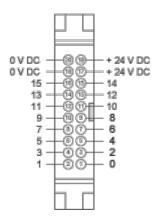
Mounting and Clearance

Mounting

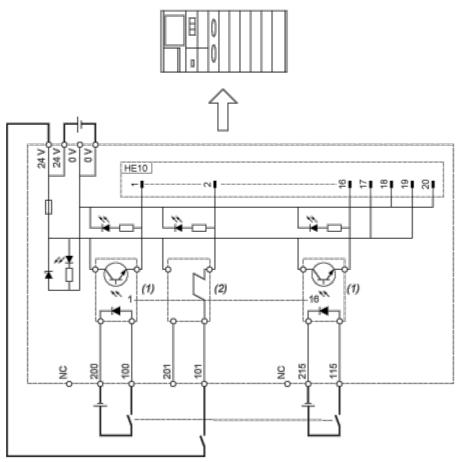


Connections and Schema

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

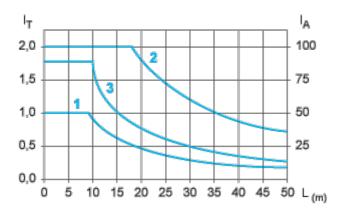
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Performance Curves

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 mm² (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.