

Product datasheet

Specifications



passive connection sub-base ABE7 - 16 inputs or outputs - Micro/ Premium cable 3m

ABE7H20E300

⚠ Discontinued on: 1 Nov 2020

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Main

| | |
|--------------------------------|---|
| Range Of Product | Modicon ABE7 |
| Product Or Component Type | Passive discrete I/O sub-base |
| Sub-Base Type | Low cost sub-base |
| [Us] Rated Supply Voltage | 19...30 V conforming to IEC 61131-2 |
| Number Of Channels | 16 |
| Number Of Terminal Per Channel | 1 |
| Connections - Terminals | Screw type terminals, 1 x 0.09...1 x 1.5 mm ² (AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm ² (AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm ² (AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm ² (AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm ² (AWG 24...AWG 14) solid |

Complementary

| | |
|-----------------------------------|--|
| Supply Voltage Type | DC |
| Number Of Horizontal Rows | 2 |
| Product Compatibility | Modicon TSX Micro PLC Modicon Premium PLC |
| Status Led | 1 LED per channel (green) channel status 1 LED (green) power ON |
| Short-Circuit Protection | 2 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 | 1.8 A |
| Current Per Channel | 0.5 A |
| Maximum Current Per Output Common | 1.8 A |
| Voltage Drop On Power Supply Fuse | 0.3 V |
| [Ui] Rated Insulation Voltage | 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 | 0.48 kg |

Environment

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---------------------------------------|--|
| Product Certifications | DNV UL CSA GL |
| Ip Degree Of Protection | IP2X conforming to IEC 60529 |
| 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 |
| Vibration Resistance | 2 gn (f= 10...150 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 | -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 |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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 >](#)

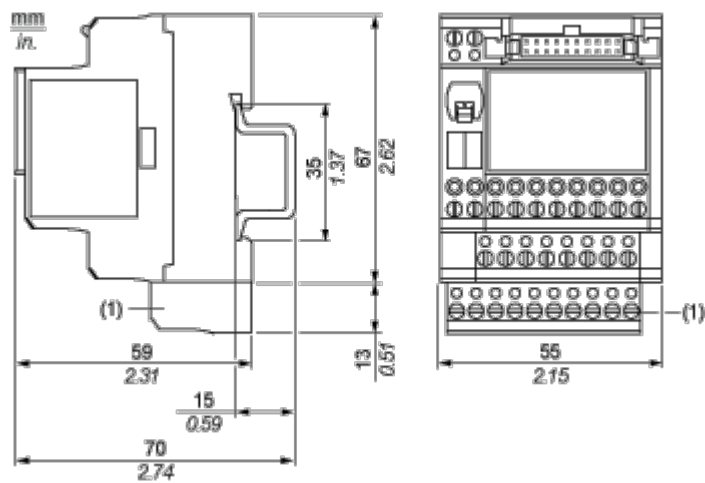
[Guide to assess a product's sustainability >](#)

Well-being performance

| | |
|--|---|
|  Mercury Free | |
|  Rohs Exemption Information | Yes |
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

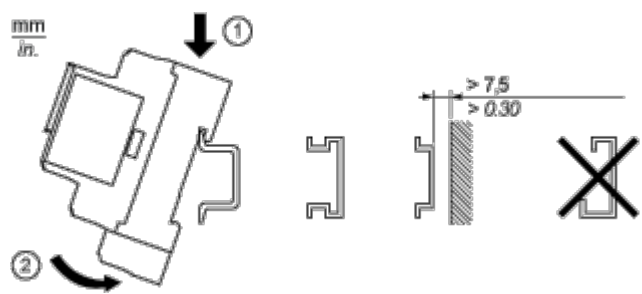
Dimensions



(1) ABE7BV10

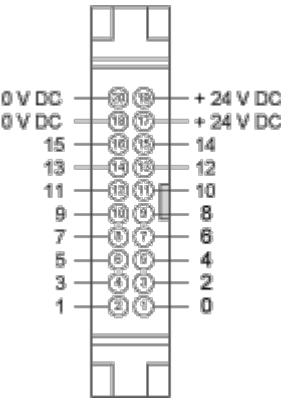
Mounting and Clearance

Mounting

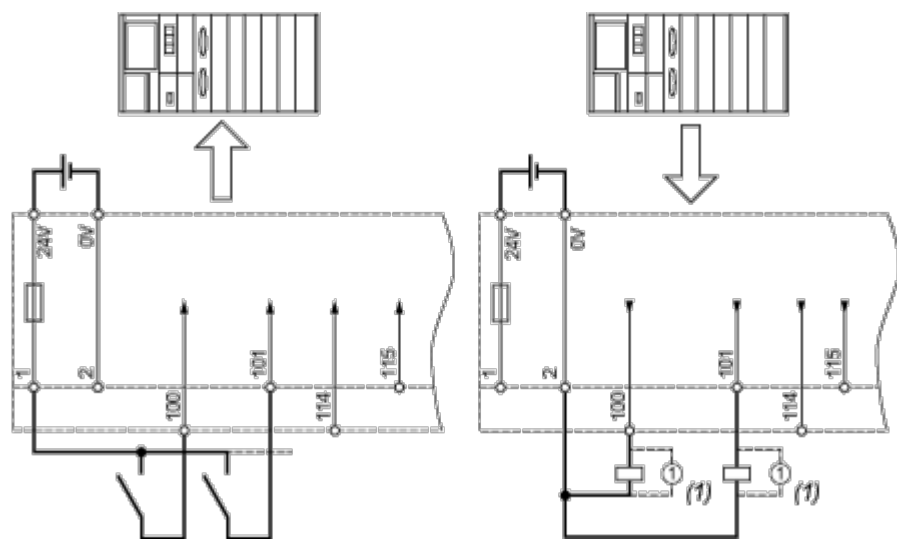


Connections and Schema

HE10 16 Channels



Wiring Diagram

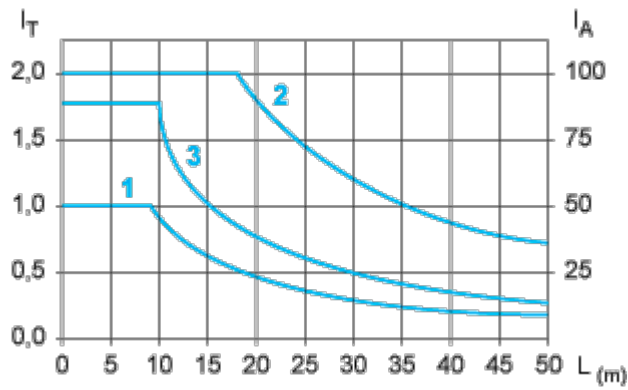


(1) Inductive load

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.