

Product datasheet

Specifications



sub-base for plug-in relay ABE7 - 16 channels - relay 10 mm



ABE7P16T230

EAN Code: 3389110198065

Main

Range Of Product	Modicon ABE7
Product Or Component Type	Sub-base for plug-in relay
Sub-Base Type	Output sub-base
[Us] Rated Supply Voltage	19...30 V conforming to IEC 61131-2
Number Of Channels	16
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
Product Compatibility	ABE7ACC20 ABS7SA2. ABR7S2. ABS7SC2.
Status Led	1 LED per channel (green) channel status 1 LED (green) power ON
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
Maximum Current Per Output Common	16 A
[U _i] Rated Insulation Voltage	300 V coil circuit/contact circuits conforming to IEC 60947-1 2000 V terminals/mounting rails
[U _{imp}] Rated Impulse Withstand Voltage	2.5 kV
Installation Category	II conforming to IEC 60664-1
Tightening Torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Net Weight	0.655 kg

Environment

Product Certifications	CSA DNV GL UL EAC
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
Package 1 Height	8.0 cm
Package 1 Width	9.5 cm
Package 1 Length	22.0 cm
Package 1 Weight	628.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.06 kg

Logistical informations

Country Of Origin	US
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Contractual warranty

Warranty	18 months
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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 >](#)



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](#)

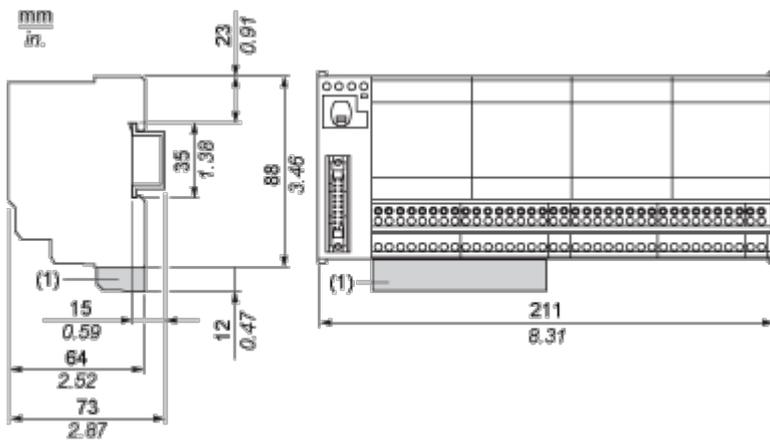
Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Dimensions Drawings

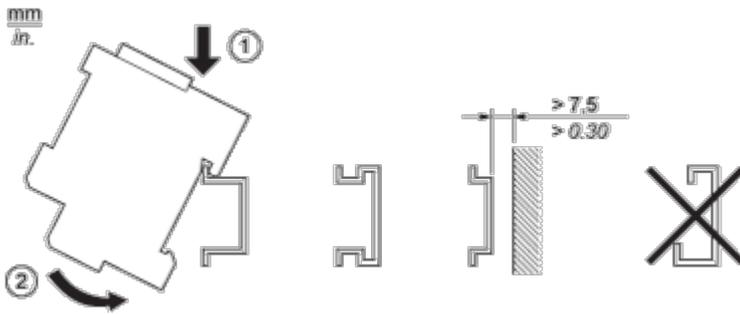
Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

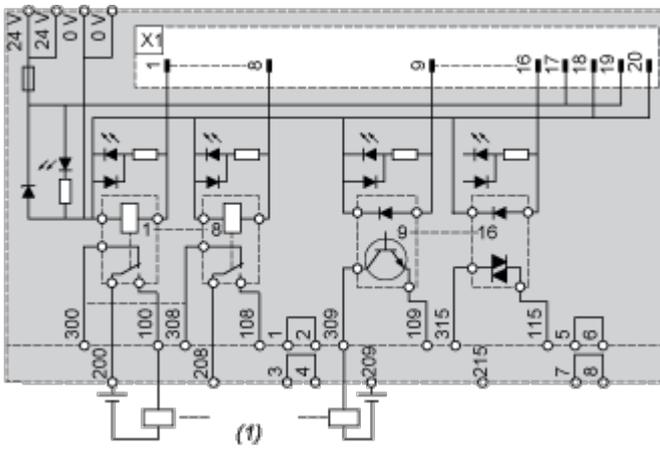
Mounting and Clearance

Mounting



Connections and Schema

Wiring Diagram

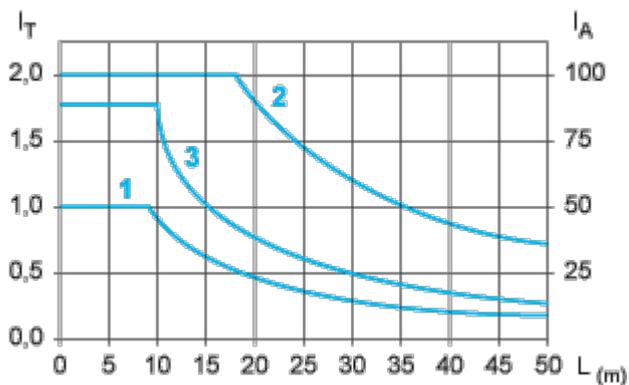


(1) 16 channels

Performance Curves

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base



L Cable length

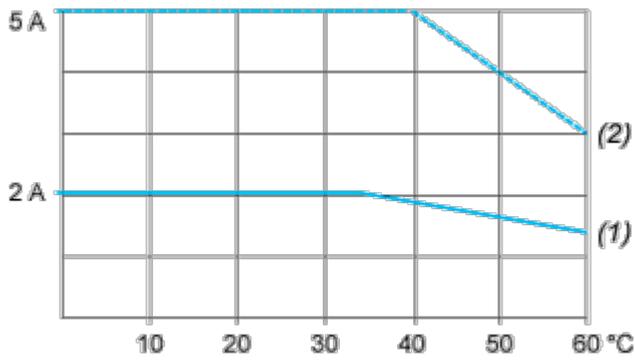
I_T Total current per sub base (A)

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.

Temperature Derating Curves



- (1) 100 % of channels used
- (2) 50 % of channels used