

# Product datasheet

Specifications



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

ABE7P16T230

! Discontinued on: 01 Nov 2020

! Discontinued

### 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 <sup>2</sup> (AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm <sup>2</sup> (AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm <sup>2</sup> (AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm <sup>2</sup> (AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm <sup>2</sup> (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
[Ui] Rated Insulation Voltage	300 V coil circuit/contact circuits conforming to IEC 60947-1 2000 V terminals/mounting rails
[Uimp] 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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

# 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

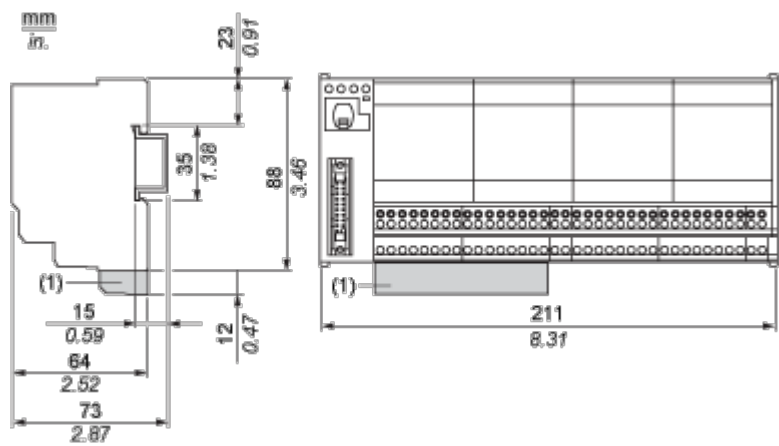
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.0 cm
Package 1 Width	9.5 cm
Package 1 Length	22.0 cm
Package 1 Weight	628.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.06 kg

# Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions

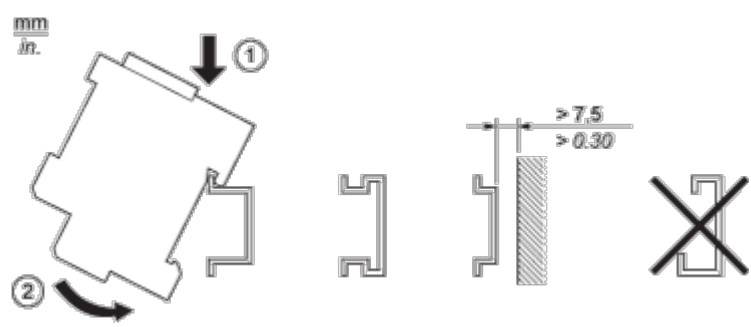


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting and Clearance

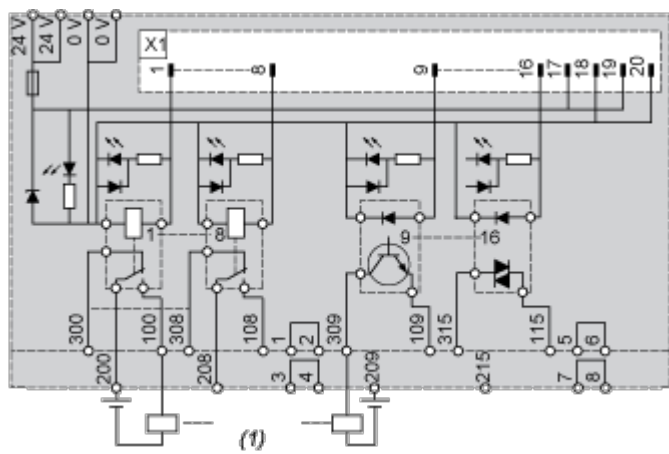
Mounting

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Connections and Schema

Wiring Diagram

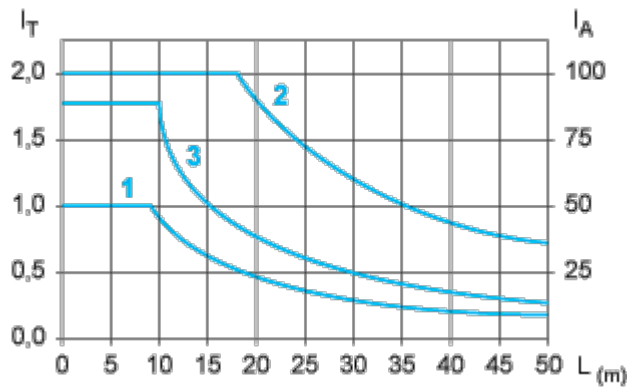


(1) 16 channels

Performance Curves

Curves for Determining Cable Type and Length According to the Current

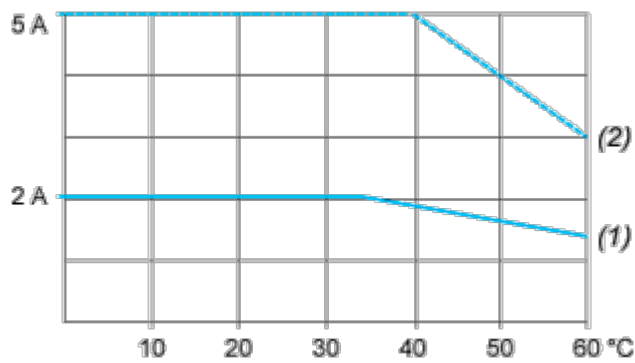
16-channel Sub-base



- L Cable length
- I<sub>T</sub> Total current per sub base (A)
- I<sub>A</sub> Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm<sup>2</sup> (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm<sup>2</sup> (AWG 22).
- (3) Cables with c.s.a. 0.13 mm<sup>2</sup> (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