# *Product datasheet*
*Characteristics*

# ABE7P16T214
sub-base for plug-in relay ABE7 - 16 channels - fuses - relay 10 mm

## Main

| | |
|---|---|
| Range of product | Advantys Telefast 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, clamping capacity: 1 x 0.09...1 x 1.5 mm² AWG 28...AWG 16 flexible with cable end<br>Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 12 solid<br>Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 14 flexible without cable end<br>Screw type terminals, clamping capacity: 2 x 0.09...2 x 0.75 mm² AWG 28...AWG 20 flexible with cable end<br>Screw type terminals, clamping capacity: 2 x 0.2...2 x 2.5 mm² AWG 24...AWG 14 solid |
| Channel additional information | 1 switch disconnector per channel |

## Complementary

| | |
|---|---|
| Supply circuit type | DC |
| Product compatibility | ABE7ACC20<br>ABR7S2.<br>ABS7SA2.<br>ABS7SC2. |
| Status LED | 1 LED per channel, green for channel status<br>1 LED, green for power ON |
| Polarity distribution | Volt-free |
| Short circuit protection | 1 A internal fuse, 5 x 20 mm, fast blow (PLC end)<br>0.5 A fuse per channel, 5 x 20 mm, fast blow (output circuit) |
| Fixing mode | By clips on 35 mm symmetrical DIN rail<br>By screws on solid plate with fixing kit |
| Supply current | <= 1 A |
| Voltage drop on power supply fuse | 0.3 V |
| Current per output common | <= 16 A |
| [Ui] rated insulation voltage | 2000 V between terminals/mounting rails<br>300 V between coil circuit/contact circuits conforming to IEC 60947-1 |
| [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) |
| Product weight | 0.675 kg |

## Environment

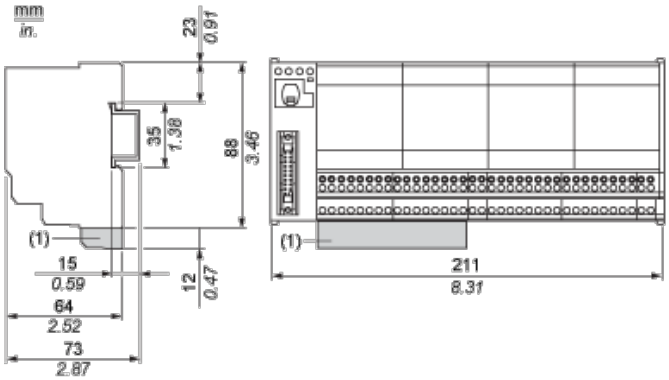
| | |
|---|---|
| product certifications | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>UL |
| IP degree of protection | IP2x conforming to IEC 60529 |
| resistance to incandescent wire | 750 °C conforming to IEC 60695-2-11 |

| | |
|---|---|
| shock resistance | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| vibration resistance | 2 gn (f = 10...150 Hz) conforming to IEC 60068-2-6 |
| resistance to electrostatic discharge | 4 kV (contact) conforming to IEC 61000-4-2 level 3<br>8 kV (air) conforming to IEC 61000-4-2 level 3 |
| resistance to radiated fields | 10 V/m (26000000...1000000000 Hz) conforming to IEC 61000-4-3 level 3 |
| resistance to fast transients | 2 kV conforming to IEC 61000-4-4 level 3 |
| 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 |

## Offer Sustainability

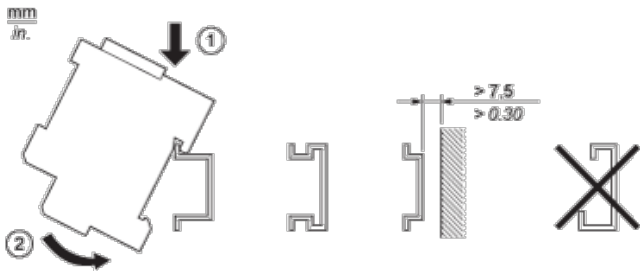
| | |
|---|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0841 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

## Dimensions

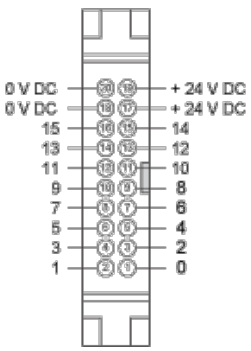



**(1)** ABE7BV10 / BV20, ABE7BV10E / BV20E

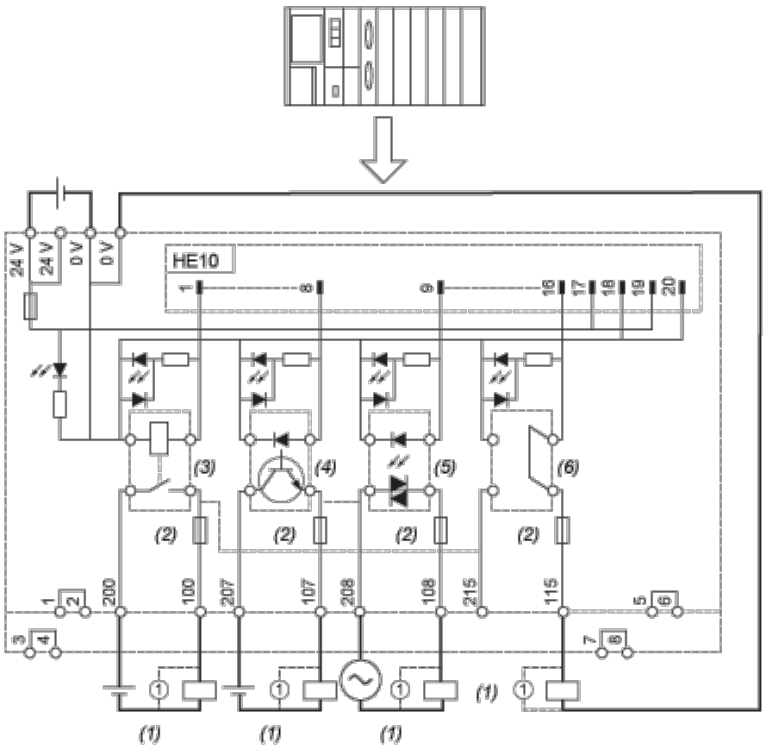
## Mounting




## HE10 16 Channels



## Wiring Diagram




**(1)** Inductive load

**(2)** Fuse only for ABE7P16T214

**(3)** ABR7S21 (1 “F”/SPDT) (not supplied)

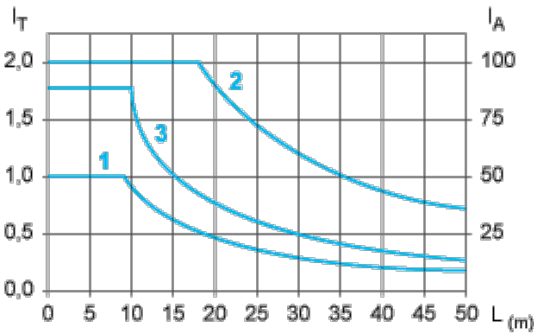
**(4)** ABS7SC2E (5...48 VDC) I max. = 0.5 A (not supplied)

**(5)** ABS7SA2M (24...240 VAC) I max. = 0.5 A (not supplied)

**(6)** ABE7ACC20 (24 VDC) (not supplied/not isolated)

## 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)

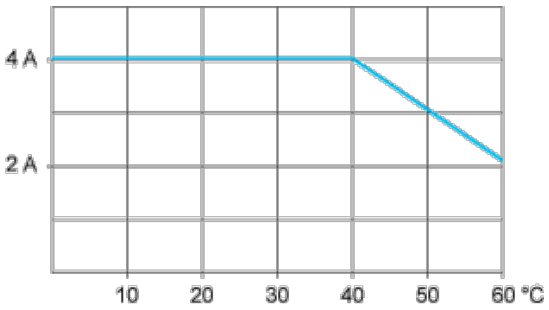
**(1)** TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 $mm^2$ (AWG 28).

**(2)** TSXCDP••3 cables with c.s.a. 0.34 $mm^2$ (AWG 22).

**(3)** Cables with c.s.a. 0.13 $mm^2$ (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


4 A
2 A
10
20
30
40
50
60 °C