Product data sheet
Characteristics

ABE7P16T330

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

Main

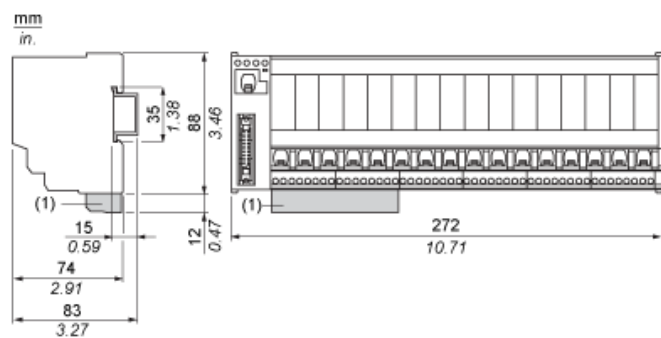|	
Range of product	Advantys Telefast ABE7
Product or component type	Sub-base for plug-in relay
Sub-base type	Output sub-base
[Us] rated supply voltage	19...30 V conforming to IEC 61131-2
Number of channels	16
Connections - terminals	Screw type terminals, clamping capacity: 2 x 0.2...2 x 2.5 mm² AWG 24...14 solid Screw type terminals, clamping capacity: 2 x 0.09...2 x 0.75 mm² AWG 28...20 flexible with cable end Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm² AWG 26...14 flexible without cable end Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm² AWG 26...12 solid Screw type terminals, clamping capacity: 1 x 0.09...1 x 1.5 mm² AWG 28...16 flexible with cable end

Complementary

Supply voltage type	DC
Product compatibility	ABE7ACC21 ABR7S33 ABS7A3. ABS7SC3..
Status LED	1 LED, green for power ON 1 LED per channel, green for channel status
Polarity distribution	Volt-free
Short circuit protection	1 A internal fuse, 5 x 20 mm, fast blow (PLC end)
Fixing mode	By screws on solid plate with fixing kit By clips on 35 mm symmetrical DIN rail
Supply current	<= 1 A
Voltage drop on power supply fuse	0.3 V
Current per output common	<= 16 A
[Ui] rated insulation voltage	300 V between coil circuit/contact circuits conforming to IEC 60947-1 2000 V between 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 (withflat Ø 3.5 mm
Product weight	0.9 kg

Environment
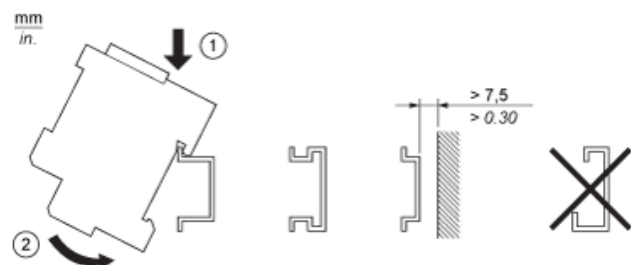
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) UL
IP degree of protection	IP2x conforming to IEC 60529
Resistance to incandescent wire	750 °C, extinction time: < 30 s conforming to IEC 60695-2-11
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	2 gn (f = 10...150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	8 kV (air) conforming to IEC 61000-4-2 level 3 4 kV (contact) 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

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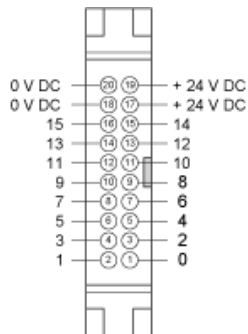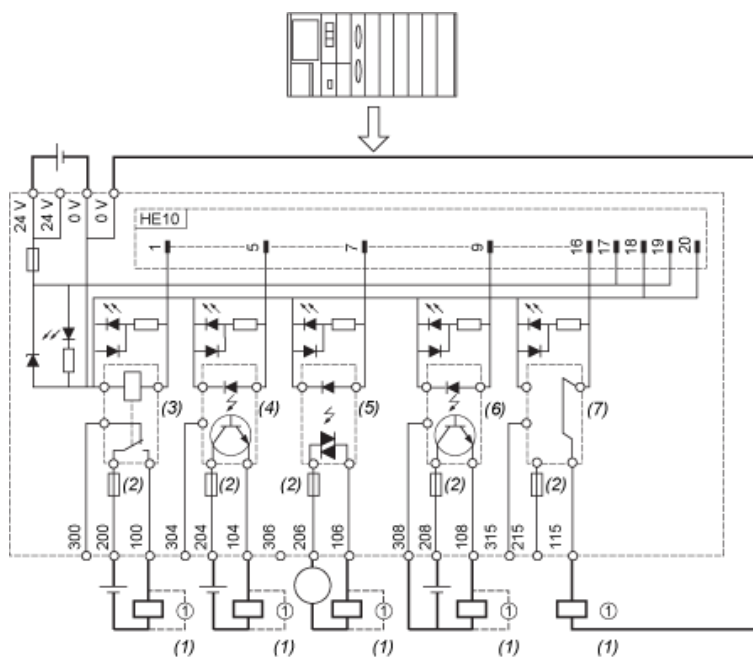|	
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
Ambient air temperature for operation	-5...60 °C conforming to IEC 61131-2
Ambient air temperature for storage	-40...80 °C conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

Schneider Electric

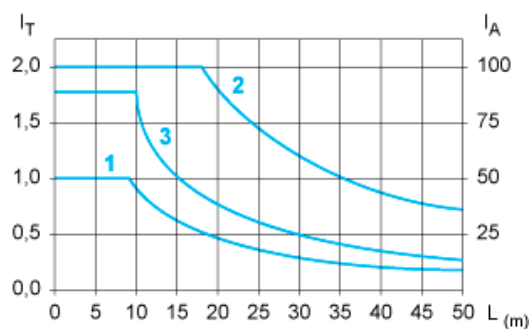## Dimensions

mm / in.

(1)   ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting

mm
in.

> 7,5
> 0.30

Schneider Electric

HE10 16 Channels

Wiring Diagram

(1) Inductive load
(2) Fuse only for ABE7P16T334
(3) ABR7S33 (1 "OF" "DPDT") Ith = 10 A (supplied)
(4) ABS7SC3E (5...48 VDC) Imax. = 1.5 A (not supplied)
(5) ABS7SA3M (24...240 VAC) Imax. = 1.5 A (not supplied)
(6) ABS7SC3BA (24 VDC) Imax. = 2 A (not supplied)
(7) ABE7ACC21 (24 VDC) Imax. = 0.5 A (not supplied)

ABE7P16T330

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)
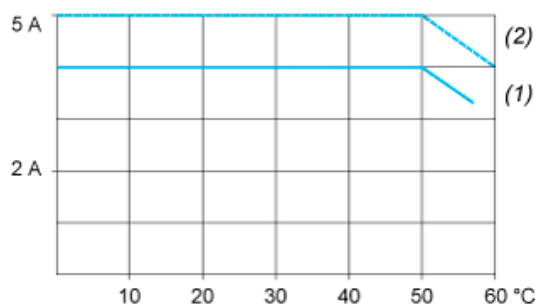I_A Average current per channel (mA)
(1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm^2 (AWG 28).
(2) TSXCDP••3 cables with c.s.a. 0.34 mm^2 (AWG 22).
(3) Cables with c.s.a. 0.13 mm^2 (AWG 26).

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.
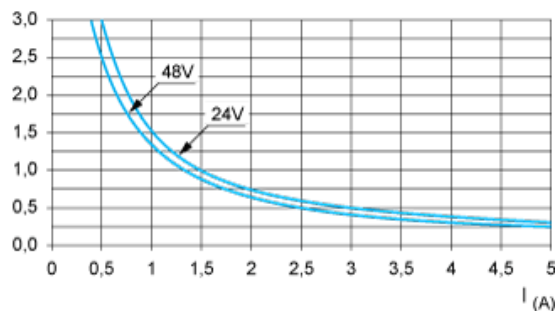
Temperature Derating Curves

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

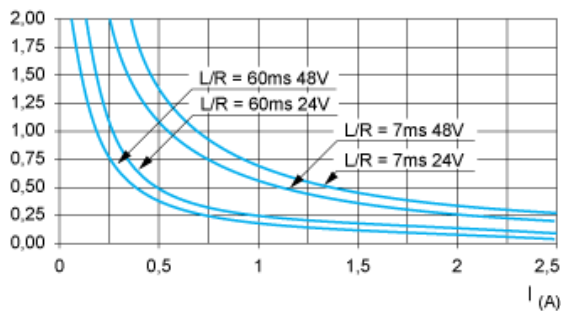## Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

DC Loads

DC12 curves

DC12control of resistive loads and of solid state loads isolated by optocoupler, l/R ≤ 1 ms.

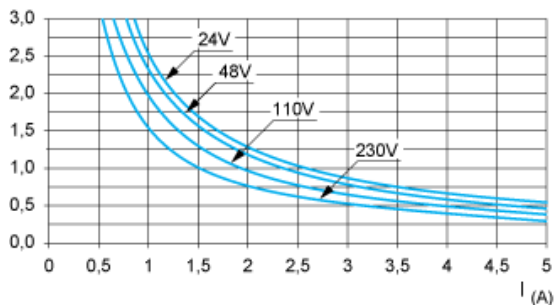Schneider Electric

DC13 curves

DC13 switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)
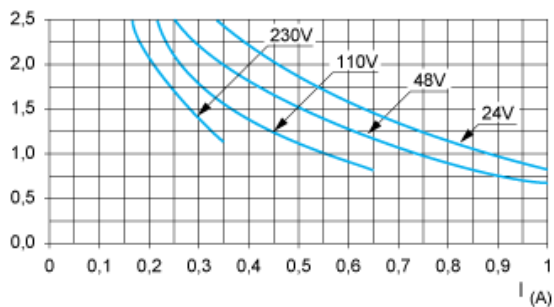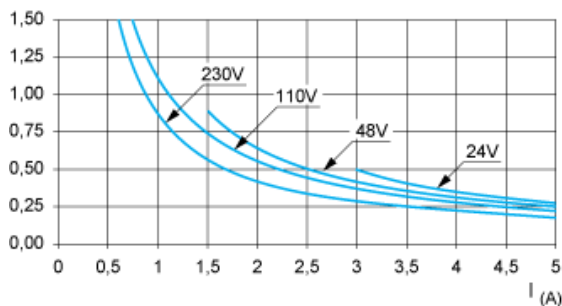
AC Loads

AC12 curves

AC12 control of resistive loads and of solid state loads isolated by optocoupler, cos φ ≥ 0.9.

AC14 curves

AC14 control of small electromagnetic loads ≤ 72 VA, make: cos φ = 0.3, break: cos φ = 0.3.

AC15 curves

AC15 control of electromagnetic loads > 72 VA, make: cos φ = 0.7, break: cos φ = 0.4.