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	1930 V conforming to IEC 61131-2
Number of channels	16
Connections - terminals	Screw type terminals, clamping capacity: 1 x 0.091 x 1.5 mm² AWG 28AWG 16 flexible with cable end Screw type terminals, clamping capacity: 1 x 0.141 x 2.5 mm² AWG 26AWG 12 solid Screw type terminals, clamping capacity: 1 x 0.141 x 2.5 mm² AWG 26AWG 14 flexible without cable end Screw type terminals, clamping capacity: 2 x 0.092 x 0.75 mm² AWG 28AWG 20 flexible with cable end Screw type terminals, clamping capacity: 2 x 0.22 x 2.5 mm² AWG 24AWG 14 solid

Complementary

Supply circuit type	DC	
Product compatibility	ABE7ACC21 ABR7S33 ABS7A3. ABS7SC3	
Status LED	1 LED per channel, green for channel status 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)	
Fixing mode	By clips on 35 mm symmetrical DIN rail 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 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	0.9 kg	

Environment

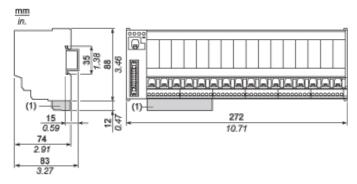
product certifications	BV CSA DNV GL LROS (Lloyds register of shipping)	
IP degree of protection	UL IP2x conforming to IEC 60529	
resistance to incandescent wire shock resistance	750 °C, extinction time: < 30 s conforming to IEC 60695-2-11 15 gn for 11 ms conforming to IEC 60068-2-27	
vibration resistance	2 gn (f = 10150 Hz) conforming to IEC 60068-2-6	

resistance to electrostatic discharge	4 kV (contact) conforming to IEC 61000-4-2 level 3 8 kV (air) conforming to IEC 61000-4-2 level 3
resistance to radiated fields	10 V/m (260000001000000000 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	-560 °C conforming to IEC 61131-2
ambient air temperature for storage	-4080 °C conforming to IEC 61131-2
pollution degree	2 conforming to IEC 60664-1

Offer Sustainability

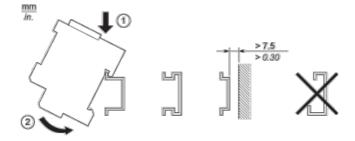
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions

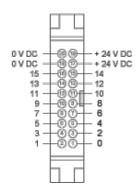


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting

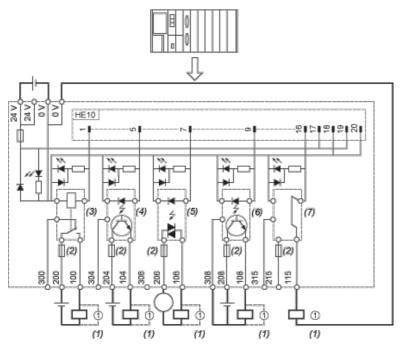


HE10 16 Channels



Wiring Diagram

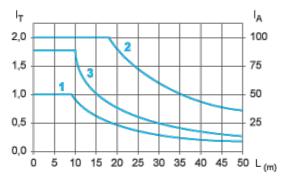




- (1) Inductive load
- (2) Fuse only for ABE7P16T334
- (3) ABR7S33 (1 "OF" "DPDT") Ith = 10 A (supplied)
- (4) ABS7SC3E (5...48 VDC) Imax. = 1.5 A (not supplied)
- (5) ABS7SA3M (24...240 VAC) Imax. = 1.5 A (not supplied)
- (6) ABS7SC3BA (24 VDC) Imax. = 2 A (not supplied)
- (7) ABE7ACC21 (24 VDC) Imax.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

Curves for Determining Cable Type and Length According to the Current

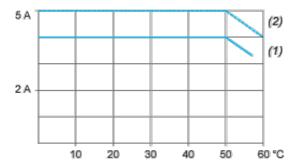
16-channel Sub-base



- L Cable length
- \mathbf{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.

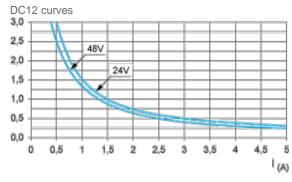
Temperature Derating Curves



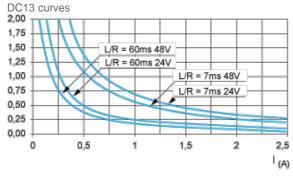
- (1) 100 % of channels used
- (2) 50 % of channels used

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

DC Loads

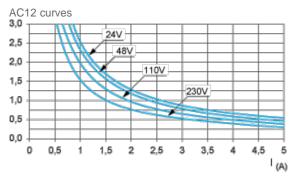


DC12control of resistive loads and of solid state loads isolated by optocoupler, I/R ≤ 1 ms.



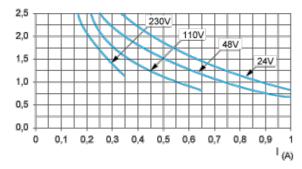
DC13switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

AC Loads

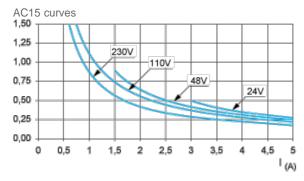


AC12control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.

AC14 curves



AC14control of small electromagnetic loads \leq 72 VA, make: $\cos \phi = 0.3$, break: $\cos \phi = 0.3$.



AC15control of electromagnetic loads > 72 VA, make: $\cos \phi = 0.7$, break: $\cos \phi = 0.4$.