ABE7P16T318

sub-base for plug-in relay ABE7 - 16 channels - fuses - isolator - 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
Channel additional information	1 switch disconnector per channel

Complementary

Supply circuit type	DC	
Product compatibility	ABE7ACC21 ABR7S33 ABS7A3M ABS7SC3E	
Status LED	1 LED per channel, green for channel status 1 LED, green for power ON	
Polarity distribution	Polarity distribution contact common per 2 groups of 4 channels	
Short circuit protection	1 A internal fuse, 5 x 20 mm, fast blow (PLC end) 2 A fuse per channel, 5 x 20 mm, fast blow (output circuit)	
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	1 kg	

Environment

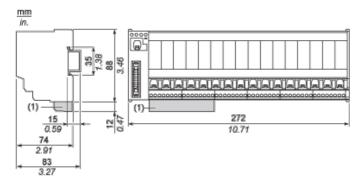
product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) UL	
IP degree of protection	IP2x conforming to IEC 60529	
resistance to incandescent wire	750 °C, extinction time: < 30 s conforming to IEC 60695-2-11	

shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
vibration resistance	2 gn (f = 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

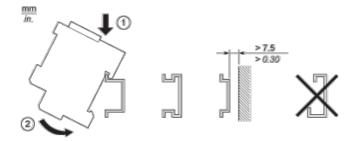
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions

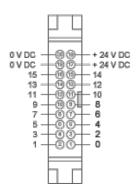


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting

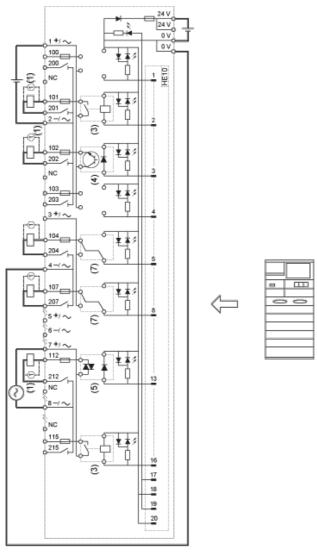


HE10 16 Channels





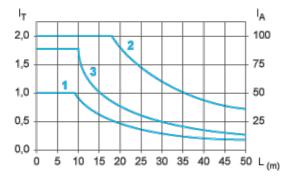
Wiring Diagram



- (1) Inductive load
- (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)
- (7) ABE7ACC21 (24 VDC) Imax. = 0.5 A (not supplied)

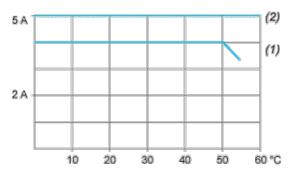
Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base



- L Cable length
- I_T Total current per sub base (A)
- I_△ 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).

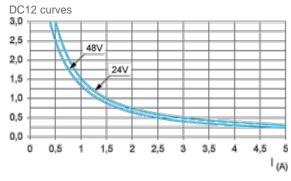
Temperature Derating Curves



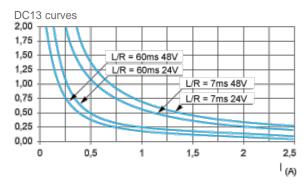
- (1) 100 % of channels used
- (2) 50 % of channels used

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

DC Loads

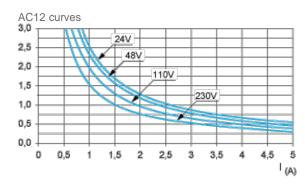


DC12control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.



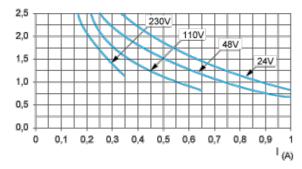
DC13switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

AC Loads

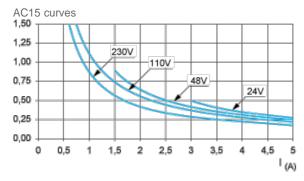


AC12control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.

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: $\cos \phi = 0.4$.