Product datasheet Characteristics

ABE7R16T230

sub-base - soldered electromechanical relays ABE7 - 16 channels - relay 10 mm





Main	
Range of product	Advantys Telefast ABE7
Product or component type	Sub-base with plug-in electromechanical relay
Sub-base type	Output sub-base
[Us] rated supply voltage	1930 V conforming to IEC 61131-2
Number of channels	16

Complementary

Supply circuit type	DC
Product compatibility	ABR7S23
Contacts type and composition	1 C/O
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) 0.5 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
[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 (withflat Ø 3.5 mm
Product weight	0.775 kg

Environment

BV
CSA
DNV
GL
LROS (Lloyds register of shipping)
UL
IP2x conforming to IEC 60529
750 °C conforming to IEC 60695-2-11
15 gn for 11 ms conforming to IEC 60068-2-27
2 gn (f = 10150 Hz) conforming to IEC 60068-2-6
4 kV (contact) conforming to IEC 61000-4-2 level 3
8 kV (air) conforming to IEC 61000-4-2 level 3
10 V/m (260000001000000000 Hz) conforming to IEC 61000-4-3 level 3
2 kV conforming to IEC 61000-4-4 level 3
-560 °C conforming to IEC 61131-2
-4080 °C conforming to IEC 61131-2
2 conforming to IEC 60664-1

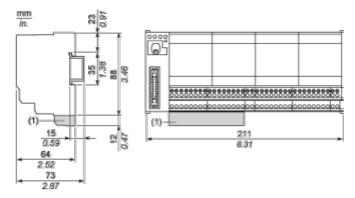




Offer Sustainability

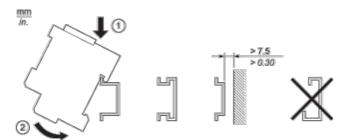
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions

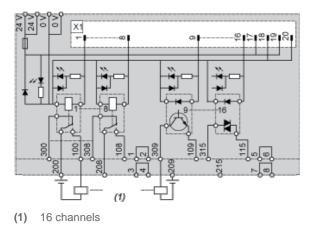


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting



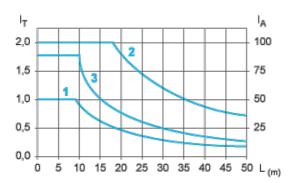
Wiring Diagram



Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base





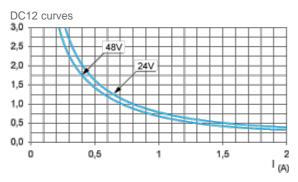
- L Cable length
- I_T Total current per sub base (A)
- I_A Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (AWG 26).

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.

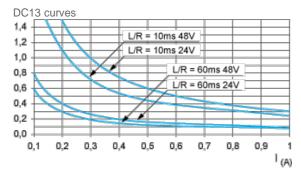
Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

Multiply all durability values by 0.75 for ABR7S23.

DC Loads

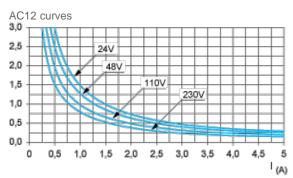


DC12control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.



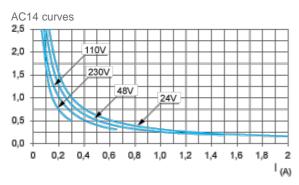
DC13switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

AC Loads

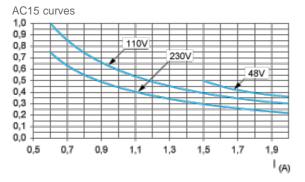


AC12 control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.





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



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

