ABE7R16T370

sub-base - soldered electromechanical relays ABE7 - 16 channels - relay 12.5 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	ABR7S37	
Status LED	LED per channel, green for channel status 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	
[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	1.3 kg	

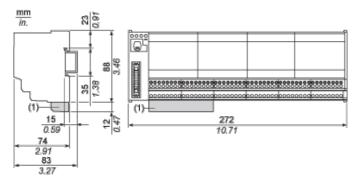
Environment

Environment	
product certifications	BV CSA DNV GL LROS (Lloyds register of shipping)
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 = 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

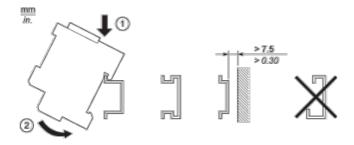
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions

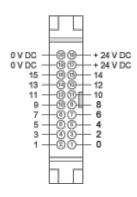


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting

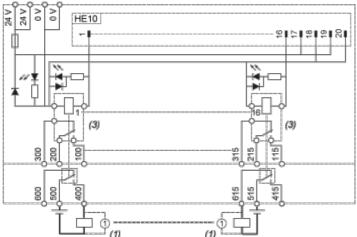


HE10 16 Channels



Wiring Diagram with Other Relays not Supplied

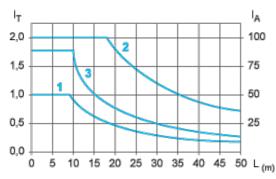




- (1) Inductive load
- (3) ABR7S37 (2 "OF" "DPDT") Ith = 8 A (supplied)

Curves for Determining Cable Type and Length According to the Current

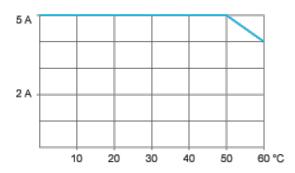
16-channel Sub-base



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

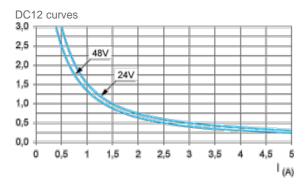
Temperature Derating Curves



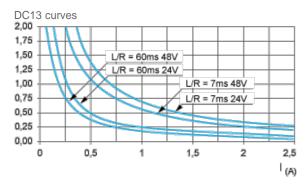
Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

DC Loads



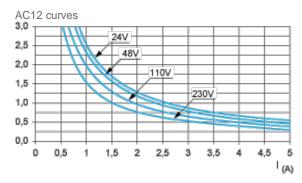


DC12control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.

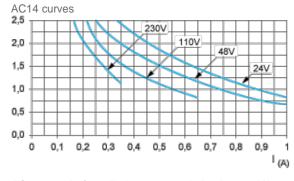


DC13switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

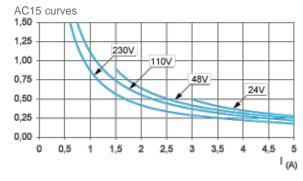
AC Loads



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



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: $\cos \phi = 0.4$.