ABE7R16M111

sub-base - soldered electromechanical relays ABE7 - 16 channels - relay 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
Connections - terminals	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: 1 x 0.141 x 1.5 mm² AWG 26AWG 16 flexible with cable end Screw type terminals, clamping capacity: 1 x 0.141 x 4 mm² AWG 26AWG 12 solid Screw type terminals, clamping capacity: 2 x 0.142 x 0.75 mm² AWG 26AWG 18 flexible with cable end Screw type terminals, clamping capacity: 2 x 0.142 x 1.5 mm² AWG 26AWG 16 solid

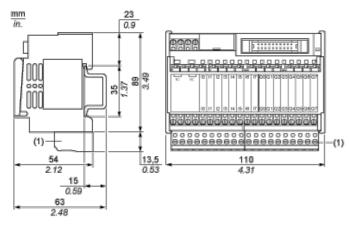
Complementary

DC
ABR7S11
1 NO
1 LED for power ON 1 LED per channel for channel status
Common distribution group of 4 + 2 inputs common terminals
1 A internal fuse, 5 x 20 mm, fast blow (PLC end)
By clips on 35 mm DIN rail By screws on surface mount with kit
<= 1 A
0.3 V
<= 5 A screw type terminals
2000 V between terminals/mounting rails 300 V between coil circuit/contact circuits conforming to IEC 60947-1
<= 12 A
2.5 kV
II conforming to IEC 60664-1
0.6 N.m (with flat Ø 3.5 mm)
0.6 kg

Environment

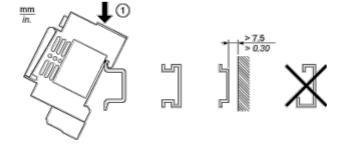
product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) UL
IP degree of protection	IP2x conforming to IEC 60529
resistance to incandescent wire	750 °C, extinction time: < 30 s conforming to IEC 60695-2-11
shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
vibration resistance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

Dimensions

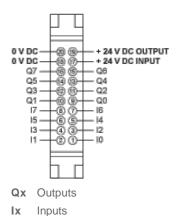


(1) ABE7BV10 / BV20

Mounting

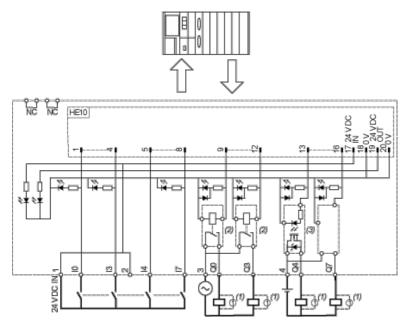


Wiring channels



Wiring Diagram

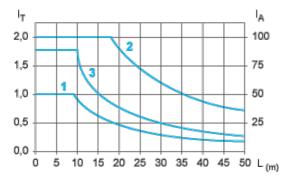




- (1) Inductive load
- (2) ABR7S11 (1F) N/O Ith = 6 A (supplied for ABE7R16M111 and not supplied for ABE7P16M111)
- (3) ABS7SC1B 24 VDC Imax. = 2 A (not supplied)

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base

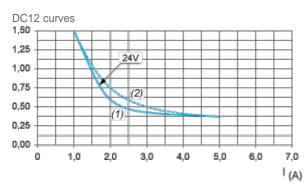


- L Cable length
- I_T Total current per sub base (A)
- I Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (AWG 26).

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.

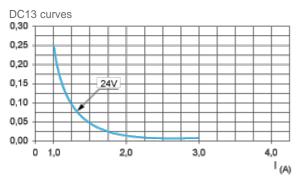
Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

DC Loads



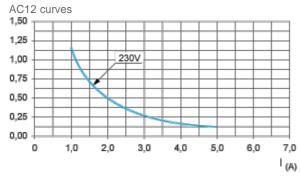
DC12control of resistive loads and of solid state loads isolated by optocoupler, I/R ≤ 1 ms.

- (1) Resistive loads
- (2) Inductive loads

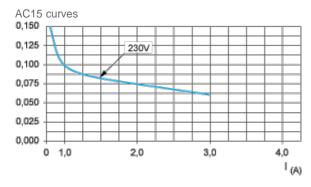


DC13switching electromagnets, $L/R \le 2 x$ (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

AC Loads



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



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