ABE7R16T212

Sub-base with plug-in electromechanical relay ABE7 - 16 channels - relay 10 mm

Green Premium™ Product

Product availability: Non-Stock - Not normally stocked in distribution facility

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	19...30 V conforming to IEC 61131-2
Number of channels	16

Complementary

Supply voltage type	DC
Product compatibility	ABR7S21
Contacts type and composition	1 NO
Status LED	1 LED per channel, green channel status 1 LED, green power ON
Polarity distribution	Polarity distribution contact common per 2 groups of 8 channels
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	5.31 lbf.in (0.6 N.m) (withflat Ø 3.5 mm
Product weight	1.61 lb(US) (0.73 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	1382 °F (750 °C) conforming to IEC 60695-2-11
Shock resistance	15 gn 11 ms conforming to IEC 60068-2-27
Vibration resistance	2 gn (f = 10...150 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	9.14 V/yd (10 V/m) (26000000...1000000000 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	23...140 °F (-5...60 °C) conforming to IEC 61131-2

Ambient air temperature for storage	-40...176 °F (-40...80 °C) conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901446552
Nbr. of units in pkg.	1
Package weight(Lbs)	1.6500000000000001
Returnability	N
Country of origin	LV

Offer Sustainability

|	
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

Dimensions
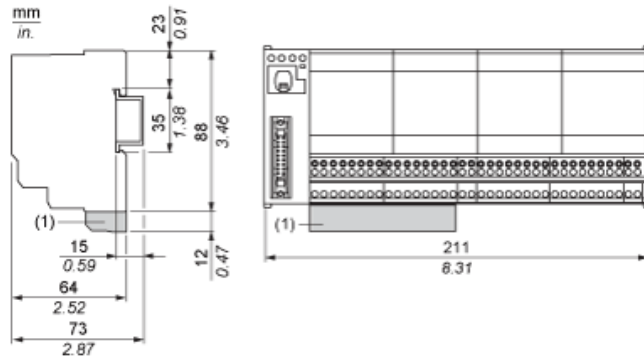
(1)   ABE7BV10 / BV20, ABE7BV10E / BV20E
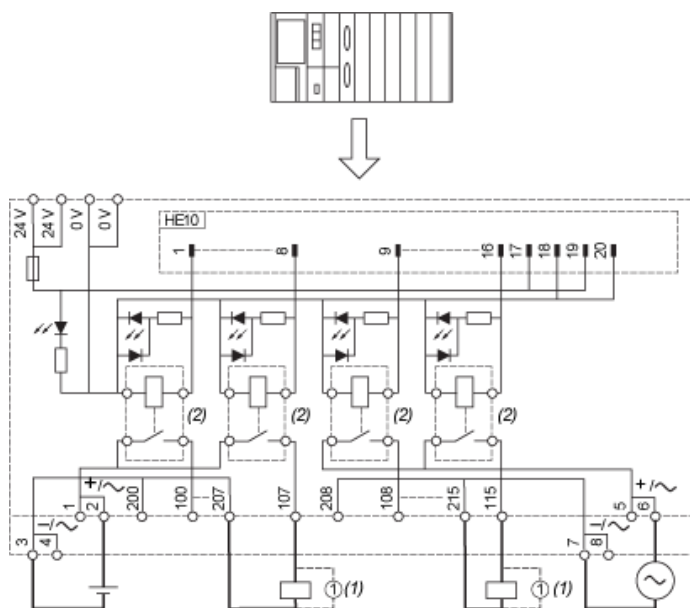
Mounting
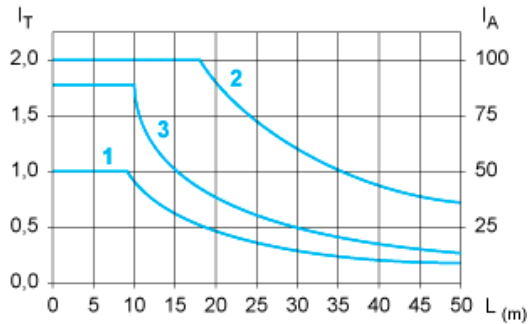
mm
in.

> 7,5
> 0.30
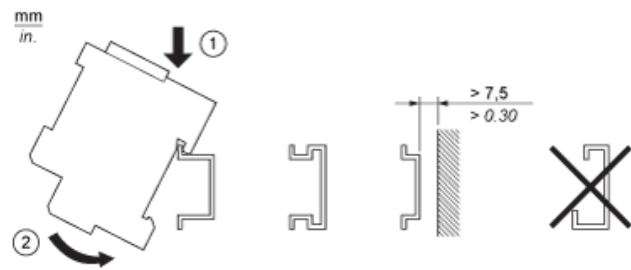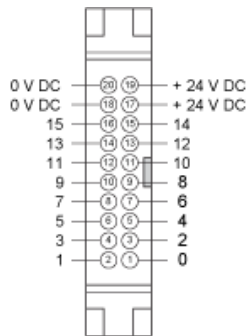
HE10 16 Channels

Wiring Diagram

(1)   Inductive load
(2)   ABR7S21 (1 "F" "SPST") Ith = 5 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)
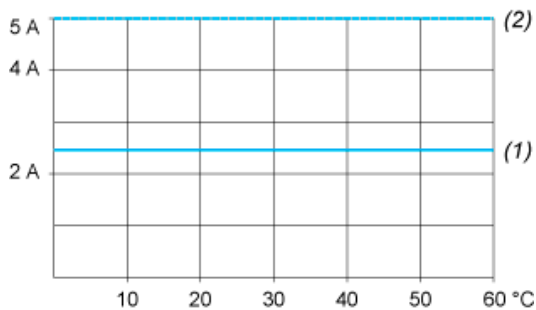I_A Average current per channel (mA)

(1)   TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm^2 (AWG 28).
(2)   TSXCDP••3 cables with c.s.a. 0.34 mm^2 (AWG 22).
(3)   Cables with c.s.a. 0.13 mm^2 (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.
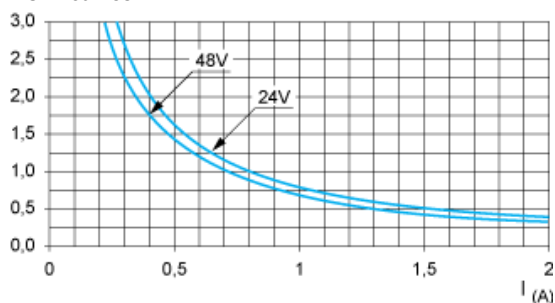
Temperature Derating Curves

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

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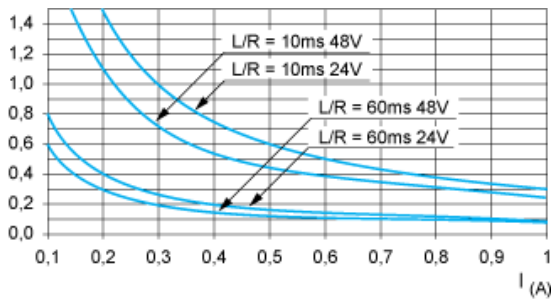
DC Loads

DC12 curves

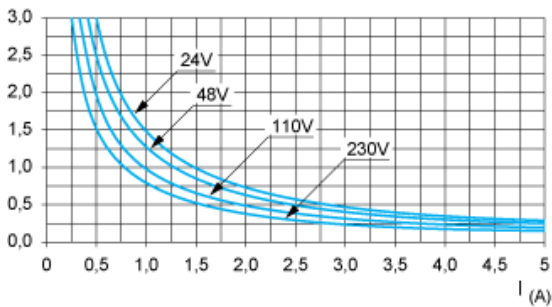DC12control of resistive loads and of solid state loads isolated by optocoupler, l/R ≤ 1 ms.

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DC13 curves

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)
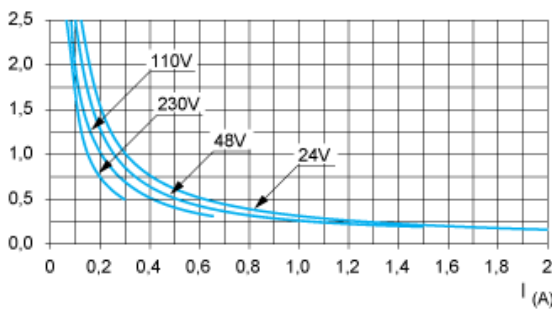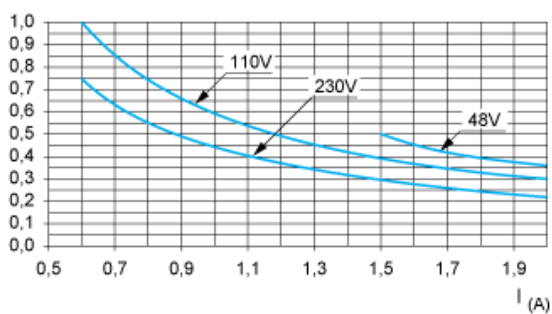
AC Loads

AC12 curves

AC12control of resistive loads and of solid state loads isolated by optocoupler, cos φ ≥ 0.9.

AC14 curves

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

AC15 curves

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

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