

Product data sheet

Specifications



sub-base - soldered electromechanical relays ABE7 - 8 channels - relay 5 mm

ABE7R08S216

⚠ Discontinued on: Jun 30, 2017

⚠ End-of-service on: Jan 15, 2021

⚠ Discontinued

Main

Range of Product	Modicon ABE7
Product or Component Type	Electromechanical output relay sub-base
[Us] rated supply voltage	24 V DC PLC end
Number of Channels	8
Connections - terminals	Screw type terminals, 1 x 0.09...1 x 1.5 mm² AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm² AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm² AWG 24...AWG 14) solid
Relay Type	Latching

Complementary

Terminal block type	Removable
Supply voltage limits	30 V DC PLC end)
Polarity distribution	Volt-free
Protection type	Internal fuse 1 A 5 x 20 mm fast blow PLC end Adjustable by external fuse high breaking capacity preactuator end
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Width	4.9 in (125 mm)
Current per channel	2 A preactuator end
Minimum switching current	2 mA >= 5 V
Threshold tripping voltage	19.2 V 104 °F (40 °C)
Maximum power dissipation per channel in W	0.3 W PLC end)
Contacts type and composition	1 NO preactuator end
Maximum switching voltage	380 V AC 50/60 Hz IEC 60947-5-1 220 V DC IEC 60947-5-1
Electrical durability	500000 cycles 1500 mA 24 V DC-13 10 ms preactuator end) 500000 cycles 1000 mA 230 V AC-15 preactuator end) 500000 cycles 2000 mA 230 V AC-12 preactuator end) 500000 cycles 2000 mA 24 V DC-12 preactuator end)
electrical reliability	2e-006
Operating time	<= 4 ms coil de-energisation and NO opening <= 5 ms coil energisation and NO closing

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Contact bounce time	<= 2 ms 1 NO
Operating rate in Hz	3 Hz no load 0.5 Hz at Ie
Mechanical durability	20000000 cycles
[Uimp] rated impulse withstand voltage	5 kV IEC 60947-1
[Ui] Rated Insulation Voltage	2000 V
Installation category	II IEC 60664-1
Tightening torque	5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm
Net Weight	0.988 lb(US) (0.448 kg)

Environment

Max immunity to microbreaks	3 ms
Dielectric strength	2000 V IEC 60947-1
Product Certifications	CSA DNV UL GL
IP degree of protection	IP2X conforming to IEC 60529
Resistance to incandescent wire	1382 °F (750 °C) 30 s IEC 60695-2-11
Vibration resistance	2 gn (f= 10...150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	4 kV contact) level 3 IEC 61000-4-2 8 kV air) level 3 IEC 61000-4-2
Resistance to radiated fields	9.1 V/m (10 V/m) 26000000...1000000000 Hz)IEC 61000-4-3 level 3
Resistance to fast transients	2 kV level 3 IEC 61000-4-4
Ambient air temperature for operation	23...140 °F (-5...60 °C) IEC 61131-2
Ambient air temperature for storage	-40...176 °F (-40...80 °C) IEC 61131-2
Pollution degree	2 IEC 60664-1

Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110251081
Returnability	No
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number

1bbe7d20-74c0-4e7e-b98b-d2946f4ab8b4

California proposition 65

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

[End of Life Information](#)

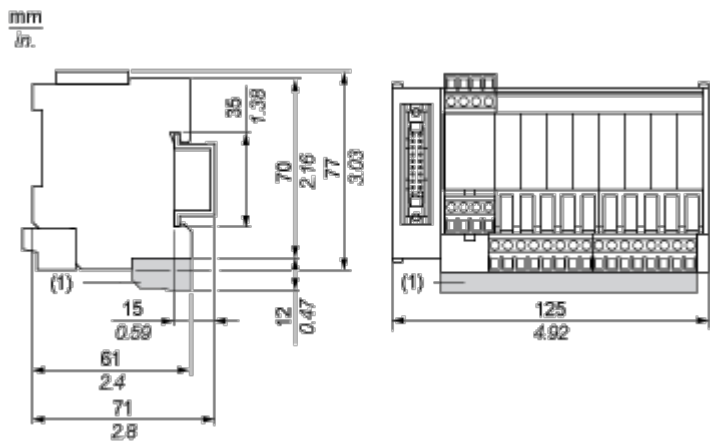
WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

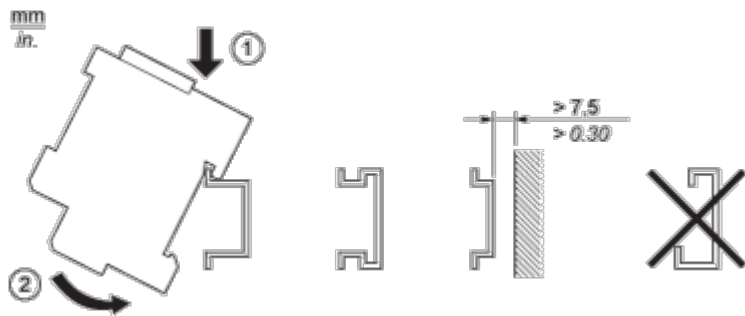
Dimensions



(1) ABE7BV10 / BV10E

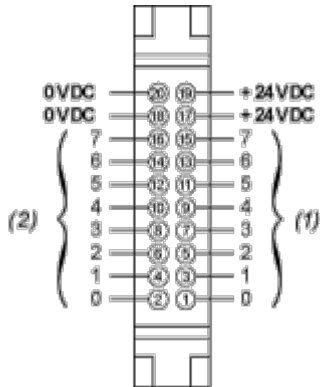
Mounting and Clearance

Mounting



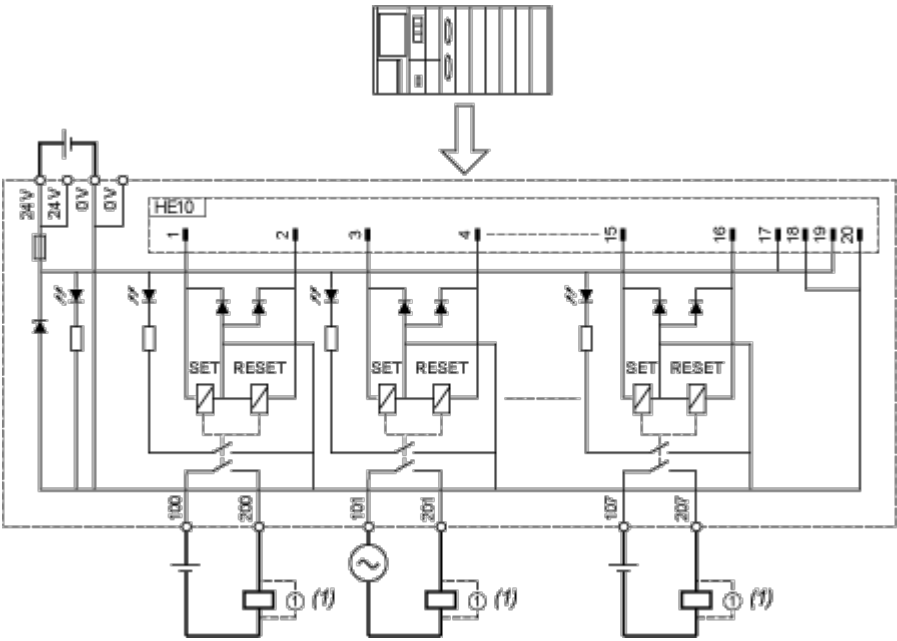
Connections and Schema

HE10 8 Channels



- (1) SET
- (2) RESET

Wiring Diagram

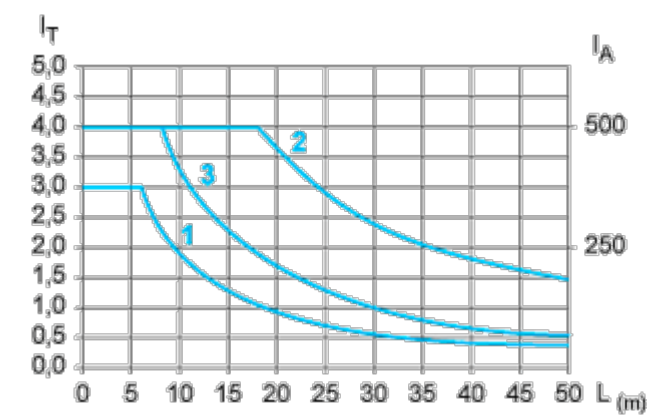


(1) Inductive load

Performance Curves

Curves for Determining Cable Type and Length According to the Current

8-channel Sub-base

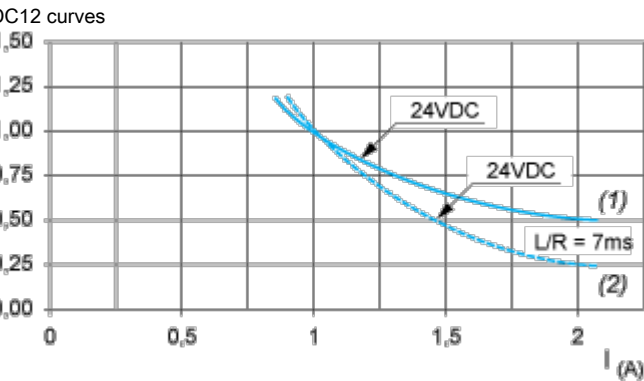


- L Cable length
- I_T Total current per sub base (A)
- I_A Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (AWG 26).

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

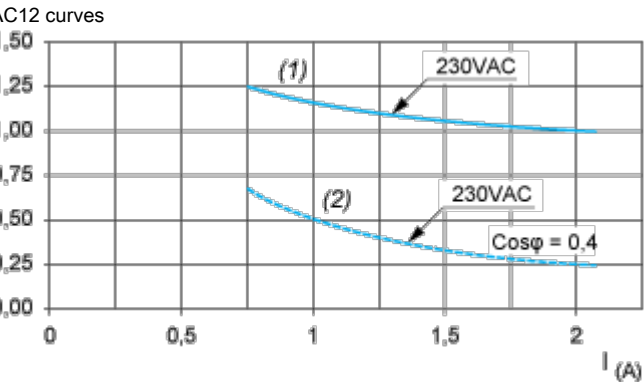
DC Loads



DC12 control of resistive loads and of solid state loads isolated by optocoupler, $I/R \leq 1$ ms.

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

AC Loads



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

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