Specifications





## Sub-base with plug-in electromechanical relay ABE7 - 16 channels - relay 12.5 mm

ABE7R16T370

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

### Price\*: 1,305.00 USD

### Main

Range Of Product	Modicon ABE7
Product Or Component Type	Sub-base with plug-in electromechanical relay
Sub-Base Type	Output sub-base
[Us] Rated Supply Voltage	1930 V IEC 61131-2
Number Of Channels	16

### Complementary

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Supply Voltage Type	DC
Product Compatibility	ABR7S37
Status Led	1 LED per channel (Green) channel status 1 LED (Green) 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 (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Maximum Supply Current	1 A
Voltage Drop On Power Supply Fuse	0.3 V
[Ui] Rated Insulation Voltage	2000 V terminals/mounting rails 300 V coil circuit/contact circuits IEC 60947-1
[Uimp] Rated Impulse Withstand Voltage	2.5 kV
Installation Category	II IEC 60664-1
Tightening Torque	5.31 lbf.in (0.6 N.m) flat Ø 3.5 mm
Net Weight	2.87 lb(US) (1.3 kg)

### Environment

Product Certifications	DNV
	CSA
	GL
	EAC
Ip Degree Of Protection	IP2X conforming to IEC 60529
Resistance To Incandescent Wire	1382 °F (750 °C) IEC 60695-2-11
Shock Resistance	15 gn 11 ms IEC 60068-2-27
Vibration Resistance	2 gn 10150 Hz)IEC 60068-2-6

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

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	9.14 V/m (10 V/m) 260000001000000000 Hz)IEC 61000-4-3 level 3
Resistance To Fast Transients	2 kV level 3 IEC 61000-4-4
Ambient Air Temperature For Operation	23140 °F (-560 °C) IEC 61131-2
Ambient Air Temperature For Storage	-40176 °F (-4080 °C) IEC 61131-2
Pollution Degree	2 IEC 60664-1

## Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
Gtin	3389110705119
Returnability	No
Country Of Origin	LV

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.35 in (8.5 cm)
Package 1 Width	3.94 in (10.0 cm)
Package 1 Length	11.50 in (29.2 cm)
Package 1 Weight	2.60 lb(US) (1.181 kg)
Unit Type Of Package 2	\$03
Number Of Units In Package 2	6
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	16.66 lb(US) (7.557 kg)

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Mercury Free

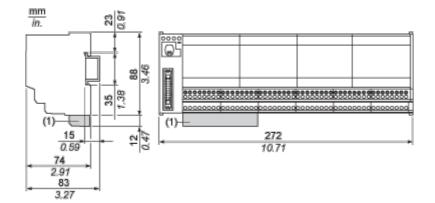
Rohs Exemption Information
Yes

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Weee Circularity Profile	

**Dimensions Drawings** 

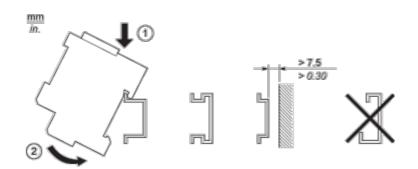
#### Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

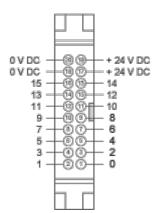
Mounting and Clearance

#### Mounting

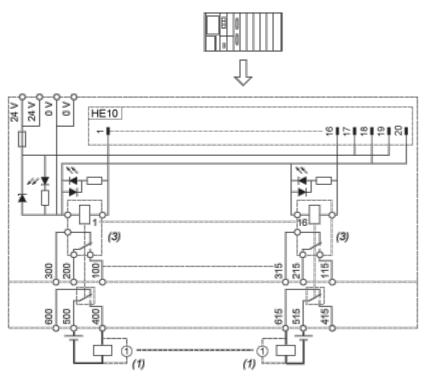


Connections and Schema

#### HE10 16 Channels



### Wiring Diagram with Other Relays not Supplied



(1) Inductive load

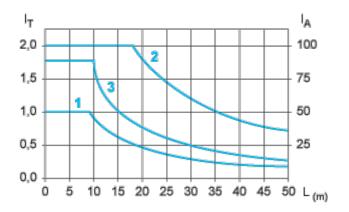
<sup>(3)</sup> ABR7S37 (2 "OF" "DPDT") Ith = 8 A (supplied)

### ABE7R16T370

### Performance Curves

#### Curves for Determining Cable Type and Length According to the Current

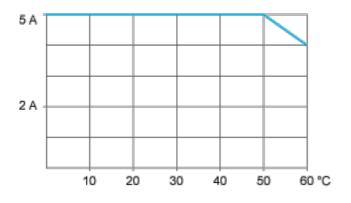
#### 16-channel Sub-base



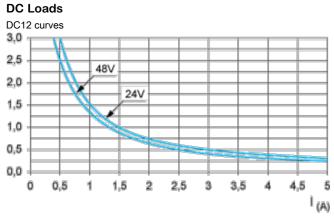
- L Cable length
- I<sub>T</sub> Total current per sub base (A)
- I<sub>A</sub> Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm<sup>2</sup> (AWG 28).
- (2) TSXCDP••3 cables with c.s.a.  $0.34 \text{ mm}^2$  (AWG 22).
- (3) Cables with c.s.a. 0.13 mm<sup>2</sup> (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.

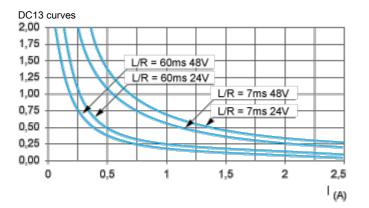
#### Temperature Derating Curves



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

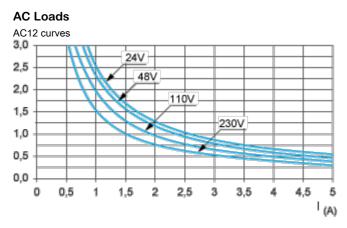


DC12 control of resistive loads and of solid state loads isolated by optocoupler,  $I/R \le 1$  ms.



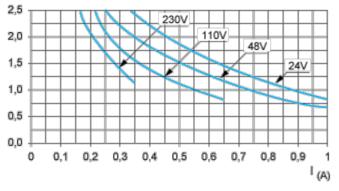
### DC13

Switching electromagnets,  $L/R \le 2 \times (Ue \times Ie)$  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)

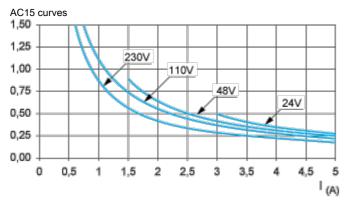




AC14 curves



AC14 control of small electromagnetic loads  $\leq$  72 VA, make: cos  $\phi$  = 0.3, break: cos  $\phi$  = 0.3.



AC15 control of electromagnetic loads > 72 VA, make:  $\cos \phi = 0.7$ , break:  $\cos \phi = 0.4$ .