Product data sheet

Specification





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

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	5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm	
Net Weight	2.9 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	1382.0000000000 °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	9.1 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	23.0000000000140.0000000000 °F (-560 °C) IEC 61131-2	
Ambient air temperature for storage	-40.0000000000176.0000000000 °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	3.3 in (8.5 cm)	
Package 1 Width	3.9 in (10.0 cm)	
Package 1 Length	11.5 in (29.2 cm)	
Package 1 Weight	2.604 lb(US) (1.181 kg)	
Unit Type of Package 2	S03	
Number of Units in Package 2	6	
Package 2 Height	11.8 in (30.0 cm)	
Package 2 Width	11.8 in (30.0 cm)	
Package 2 Length	15.7 in (40.0 cm)	
Package 2 Weight	16.660 lb(US) (7.557 kg)	

Contractual warranty

Warranty 18 months



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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

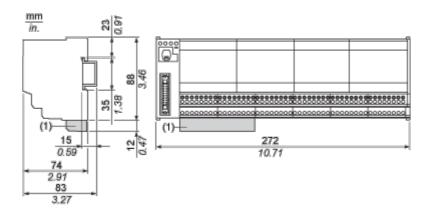
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

Product data sheet

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Dimensions Drawings

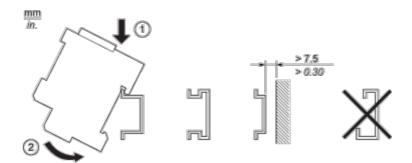
Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting and Clearance

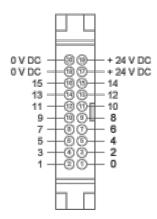
Mounting



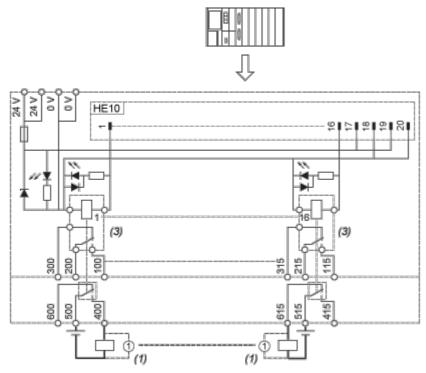
ABE7R16T370

Connections and Schema

HE10 16 Channels



Wiring Diagram with Other Relays not Supplied

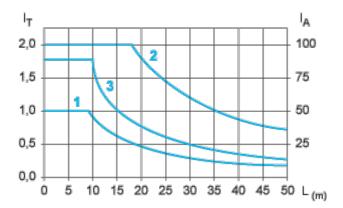


- (1) Inductive load
- (3) ABR7S37 (2 "OF" "DPDT") Ith = 8 A (supplied)

Performance Curves

Curves for Determining Cable Type and Length According to the Current

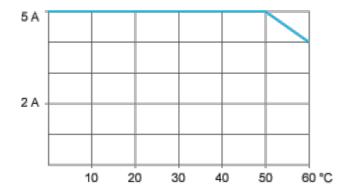
16-channel Sub-base



- 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).

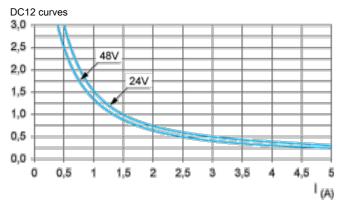
The curves are given for a voltage drop of 1 V in the cable. For n volts tolerance, multiply the length determined from the graph by n.

Temperature Derating Curves

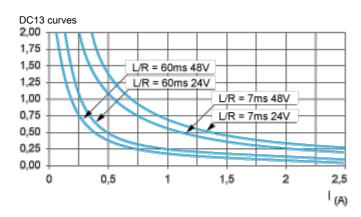


Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

DC Loads



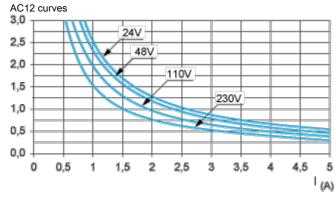
DC12 control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.



DC13

Switching electromagnets, L/R \leq 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



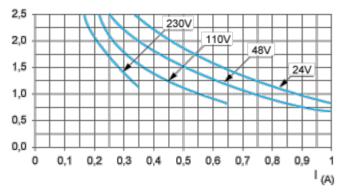
AC12 control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.

AC14 curves

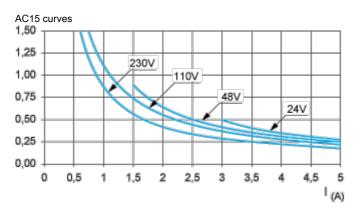
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AC14 control of small electromagnetic loads \leq 72 VA, make: $\cos \varphi = 0.3$, break: $\cos \varphi = 0.3$.



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