Product datasheet

Specifications





sub-base for plug-in relay ABE7 - 16 channels - relay 12.5 mm

Local distributor code:

402703280

ABE7P16T330

EAN Code: 3389110705133

Main

Modicon ABE7
Sub-base for plug-in relay
Output sub-base
1930 V conforming to IEC 61131-2
16
Screw type terminals, 1 x 0.091 x 1.5 mm² (AWG 28AWG 16) flexible with cable end
Screw type terminals, 1 x 0.141 x 2.5 mm ² (AWG 26AWG 12) solid
Screw type terminals, 1 x 0.141 x 2.5 mm² (AWG 26AWG 14) flexible without cable end
Screw type terminals, 2 x 0.092 x 0.75 mm² (AWG 28AWG 20) flexible with cable end
Screw type terminals, 2 x 0.22 x 2.5 mm² (AWG 24AWG 14) solid

Complementary

Supply Voltage Type	DC
Product Compatibility	ABE7ACC21 ABR7S33 ABS7SC3 ABS7A3.
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
Maximum Current Per Output Common	16 A
[Ui] Rated Insulation Voltage	300 V coil circuit/contact circuits conforming to IEC 60947-1 2000 V terminals/mounting rails
[Uimp] Rated Impulse Withstand Voltage	2.5 kV
Installation Category	II conforming to IEC 60664-1
Tightening Torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Net Weight	0.9 kg

Environment

Product Certifications	DNV
Froduct Certifications	
	CSA
	GL
	UL
	EAC
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	4 kV (contact) level 3 conforming to IEC 61000-4-2
Discharge	8 kV (air) level 3 conforming to IEC 61000-4-2
Resistance To Radiated Fields	10 V/m (260000001000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance To Fast Transients	2 kV level 3 conforming to IEC 61000-4-4
Ambient Air Temperature For Operation	-560 °C conforming to IEC 61131-2
Ambient Air Temperature For Storage	-4080 °C conforming to IEC 61131-2
Pollution Degree	2 conforming to IEC 60664-1

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.500 cm
Package 1 Width	10.000 cm
Package 1 Length	29.200 cm
Package 1 Weight	797.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	6
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.269 kg

Contractual warranty

Warranty 18 months



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

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

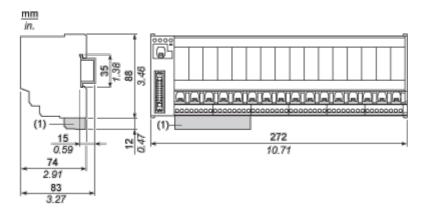
Yes

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
Circularity Profile	End of Life Information

Dimensions Drawings

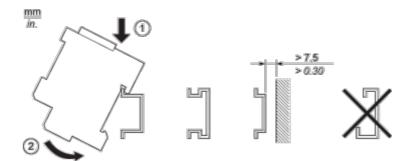
Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting and Clearance

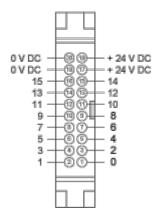
Mounting



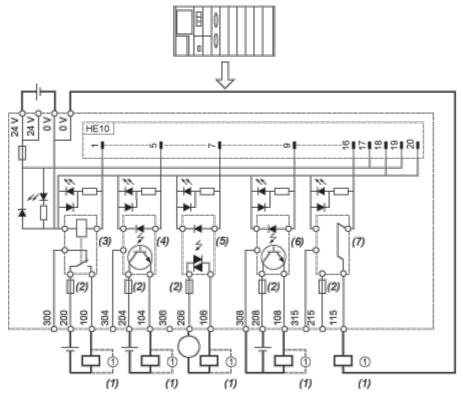
ABE7P16T330

Connections and Schema

HE10 16 Channels



Wiring Diagram

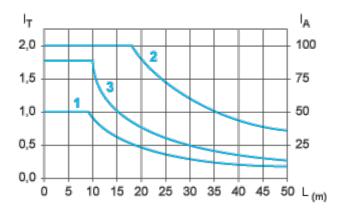


- (1) Inductive load
- (2) Fuse only for ABE7P16T334
- (3) ABR7S33 (1 "OF" "DPDT") Ith = 10 A (supplied)
- (4) ABS7SC3E (5...48 VDC) Imax. = 1.5 A (not supplied)
- (5) ABS7SA3M (24...240 VAC) Imax. = 1.5 A (not supplied)
- (6) ABS7SC3BA (24 VDC) Imax. = 2 A (not supplied)
- (7) ABE7ACC21 (24 VDC) Imax. = 0.5 A (not supplied)

Performance Curves

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base



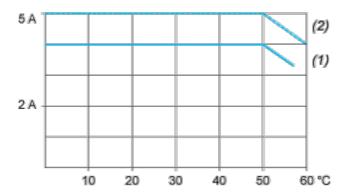
- L Cable length
- I_{T} Total current per sub base (A)
- I_A Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (AWG 26).

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.

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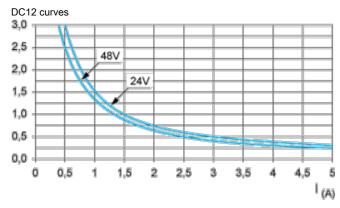
Temperature Derating Curves



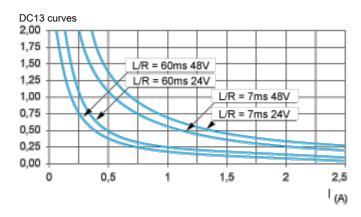
- (1) 100 % of channels used
- (2) 50 % of channels used

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

DC Loads



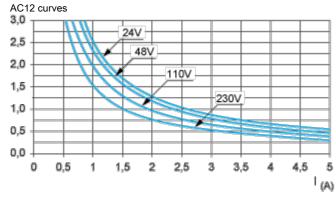
DC12 control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.



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

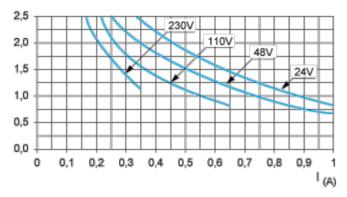


AC12 control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.

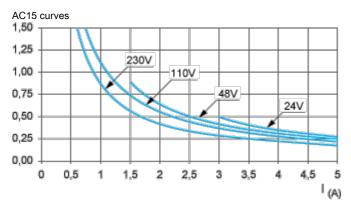
AC14 curves

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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.

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