Product datasheet

Specifications



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



Main

Range of product	Modicon ABE7
Product or component type	Sub-base for plug-in relay
Sub-base type	Input sub-base
[Us] rated supply voltage	1930 V conforming to IEC 61131-2
Number of channels	16
Number of terminal per channel	2
Connections - terminals	Screw type terminals, 1 x 0.091 x 1.5 mm ² , 0.091.5 mm ² (AWG 28AWG 16) flexible with cable end Screw type terminals, 1 x 0.141 x 2.5 mm ² , 0.142.5 mm ² (AWG 26AWG 12) solid
	Screw type terminals, 1 x 0.141 x 2.5 mm ² , 0.142.5 mm ² (AWG 26AWG 14) flexible without cable end
	Screw type terminals, 2 x 0.092 x 0.75 mm², 0.090.75 mm² (AWG 28AWG 20) flexible with cable end
	Screw type terminals, 2 x 0.22 x 2.5 mm ² , 0.22.5 mm ² (AWG 24AWG 14) solid

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Complementary

supply voltage type	DC
Product compatibility	ABR7 ABS7S33E ABS7E
Status LED	1 LED per channel (green) channel status 1 LED (green) power ON
Isolation PLC/operative part	Yes
Polarity distribution	Polarity distribution contact common per group of 4 channels
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
[Uimp] rated impulse withstand voltage	2.5 kV
[Ui] rated insulation voltage	300 V coil circuit/contact circuits conforming to IEC 60947-1 2000 V terminals/mounting rails
Installation category	II conforming to IEC 60664-1
Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Net weight	0.85 kg

Environment

Product certifications	DNV GL CSA EAC
IP degree of protection	IP2X conforming to IEC 60529
Resistance to incandescent wire	750 °C 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 discharge	4 kV (contact) level 3 conforming to IEC 61000-4-2 8 kV (air) level 3 conforming to IEC 61000-4-2
Resistance to radiated fields	10 V/m (26000000 � � � 1000000000 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	8.5 cm
Package 1 Width	10.0 cm
Package 1 Length	29.2 cm
Package 1 Weight	786.0 g
Unit Type of Package 2	\$03
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.141 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM 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-CO₂ products.

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

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

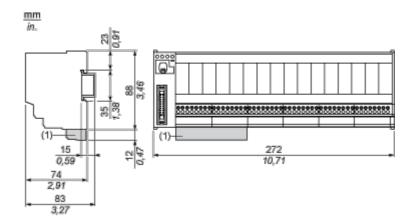
Certifications & Standards

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

Product datasheet

Dimensions Drawings

Dimensions

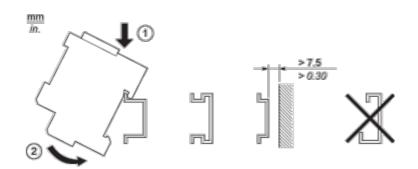


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Product datasheet

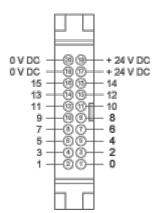
Mounting and Clearance

Mounting

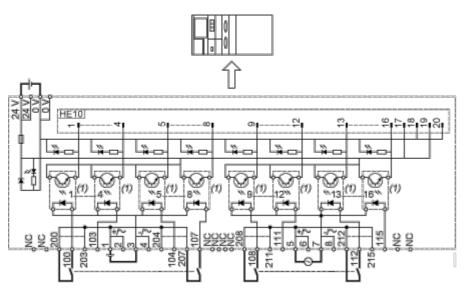


Connections and Schema

HE10 16 Channels

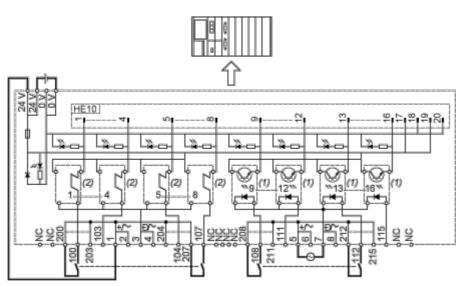


Wiring Diagram



(1) ABS7EC3AL (5 VDC TTL) / ABS7EC3B2 (24 VDC) / ABS7EC3E2 (48 VDC) / ABS7EA3E5 (48 VAC) / ABS7EA3F5 (110/130 VAC) / ABS7EA3M5 (230/240 VAC) (not supplied)

Wiring Diagram



(1) ABS7EC3AL (5 VDC TTL) / ABS7EC3B2 (24 VDC) / ABS7EC3E2 (48 VDC) / ABS7EA3E5 (48 VAC) / ABS7EA3F5 (110/130 VAC) / ABS7EA3M5 (230/240 VAC) (not supplied)

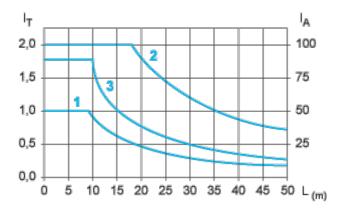
(2) ABE7ACC21 (24 VDC) (not supplied / not isolated)

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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 mm^2 (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.