Product datasheet





passive connection sub-base ABE7 - 16 outputs - fuses - Led isolator

ABE7H16F43

Main

Range of product	Modicon ABE7
Product or component type	Passive discrete I/O sub-base
Sub-base type	Output 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 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
Channel additional information	1 switch disconnector per channel

Complementary

supply voltage type	DC
Number of horizontal rows	1
Status LED	LED per channel (green) channel status LED per channel (red) blown fuse indication LED (green) power ON
Polarity distribution	0 V
Short-circuit protection	2 A internal fuse, 5 x 20 mm, fast blow (PLC end) 0.125 A fuse per channel, 5 x 20 mm, fast blow (output circuit)
Connector type	HE-10
Pin number	20 pins
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Maximum supply current	1.8 A
Current per channel	0.125 A
Maximum current per output common	1.8 A
Voltage drop on power supply fuse	0.3 V
Maximum voltage drop per channel	2 V
[Ui] rated insulation voltage	2000 V
Installation category	II conforming to IEC 60664-1

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Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Width	206 mm
Net weight	0.64 kg

Environment

Product certifications	DNV GL UL 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 (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

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	8.3 cm
Package 1 Length	21.1 cm
Package 1 Weight	620.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.418 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

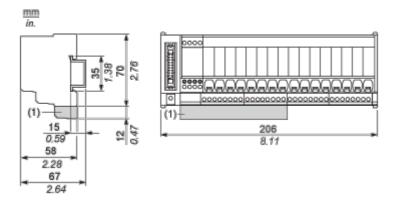
Certifications & Standards

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

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Dimensions Drawings

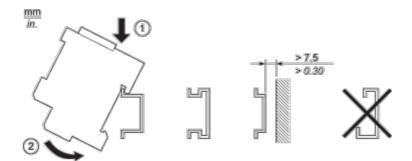
Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Mounting and Clearance

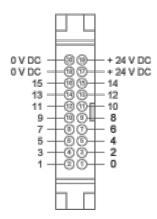
Mounting



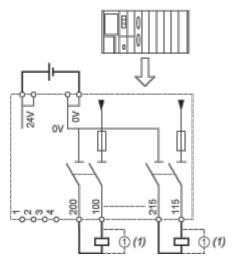
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Connections and Schema

HE10 16 Channels



Wiring Diagram

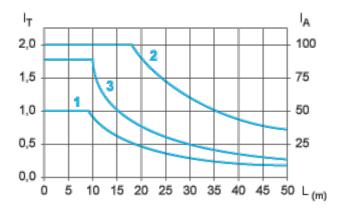


(1) Inductive load

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.