



## Main

Range of Product	Modicon ABE7
Product or Component Type	Passive discrete I/O sub-base
Sub-base type	Miniature sub-base
[Us] rated supply voltage	19...30 V IEC 61131-2
Number of Channels	16
Number of terminal per channel	1
Connections - terminals	<p>Screw type terminals, 1 x 0.09...1 x 1.5 mm<sup>2</sup>, 0.00...0.00 in<sup>2</sup> (0.09...1.5 mm<sup>2</sup>) AWG 28...AWG 16) flexible with cable end</p> <p>Screw type terminals, 1 x 0.14...1 x 2.5 mm<sup>2</sup>, 0.00...0.00 in<sup>2</sup> (0.14...2.5 mm<sup>2</sup>) AWG 26...AWG 12) solid</p> <p>Screw type terminals, 1 x 0.14...1 x 2.5 mm<sup>2</sup>, 0.00...0.00 in<sup>2</sup> (0.14...2.5 mm<sup>2</sup>) AWG 26...AWG 14) flexible without cable end</p> <p>Screw type terminals, 2 x 0.09...2 x 0.75 mm<sup>2</sup>, 0.00...0.00 in<sup>2</sup> (0.09...0.75 mm<sup>2</sup>) AWG 28...AWG 20) flexible with cable end</p> <p>Screw type terminals, 2 x 0.2...2 x 2.5 mm<sup>2</sup>, 0.00...0.00 in<sup>2</sup> (0.2...2.5 mm<sup>2</sup>) AWG 24...AWG 14) solid</p>

## Complementary

Supply voltage type	DC
Number of horizontal rows	1
Status LED	Channel status 1 LED per channel Green) Power ON 1 LED Green)
Polarity distribution	No
Short-circuit protection	2 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	1.8 A
Current per channel	0.5 A
Maximum current per output common	1.8 A
Voltage drop on power supply fuse	0.3 V
[Ui] rated insulation voltage	2000 V
Installation category	II IEC 60664-1
Tightening torque	5.31 lbf.in (0.6 N.m) flat Ø 3.5 mm
Net Weight	0.35 lb(US) (0.16 kg)

## Environment

Product Certifications	<ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>BV</li> <li>LROS (Lloyds register of shipping)</li> <li>DNV</li> <li>GL</li> <li>EAC</li> </ul>
IP degree of protection	IP2x conforming to IEC 60529
Resistance to incandescent wire	1382 °F (750 °C) 30 s IEC 60695-2-11
Shock resistance	15 gn 11 ms IEC 60068-2-27
Vibration resistance	2 gn 10...150 Hz)IEC 60068-2-6

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) 26000000...1000000000 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...140 °F (-5...60 °C) IEC 61131-2
Ambient air temperature for storage	-40...176 °F (-40...80 °C) IEC 61131-2
Pollution degree	2 IEC 60664-1

## Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110251180
Nbr. of units in pkg.	1
Package weight(Lbs)	5.33 oz (151 g)
Returnability	No
Country of origin	LV

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.76 in (7 cm)
Package 1 width	3.23 in (8.2 cm)
Package 1 Length	5.35 in (13.6 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	32
Package 2 Weight	11.44 lb(US) (5.189 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

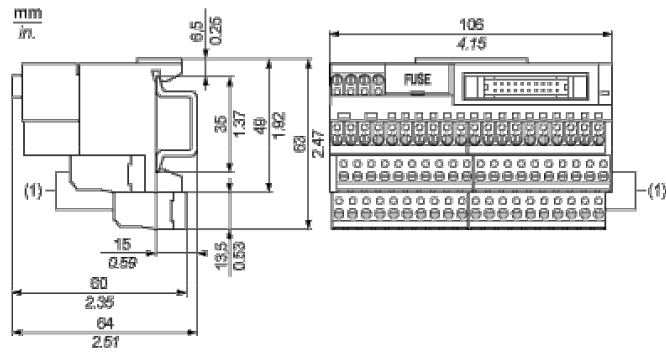
## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

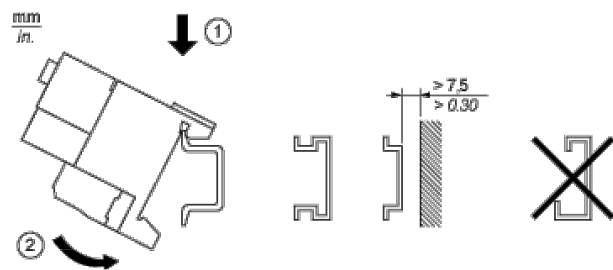
Warranty	18 months
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Dimensions

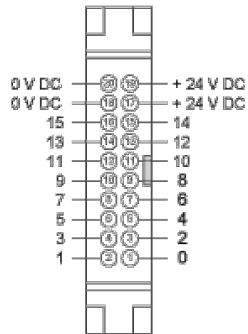


(1) ABE7BV10 / BV20

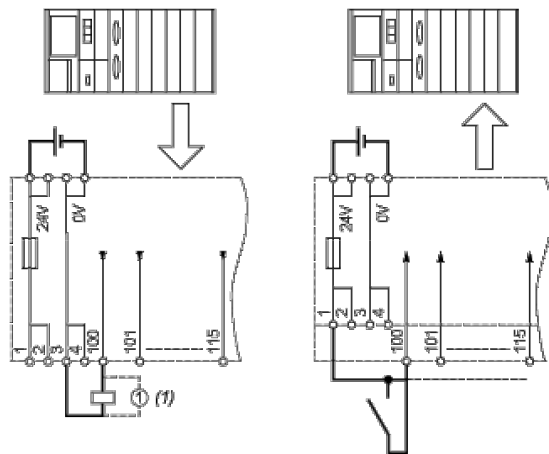
Mounting



## HE10 16 Channels



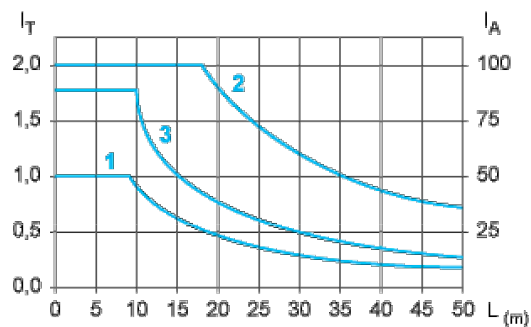
## Wiring Diagram



(1) Inductive load

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.  $0.08 \text{ mm}^2$  (AWG 28).

(2) TSXCDP••3 cables with c.s.a.  $0.34 \text{ mm}^2$  (AWG 22).

(3) Cables with c.s.a.  $0.13 \text{ mm}^2$  (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.