

# Product datasheet

Specifications



## passive connection sub-base ABE7 - 12 inputs or outputs

ABE7H12R20

❗ Discontinued on: 24 July 2020

❗ Discontinued

### Main

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

### Complementary

Supply voltage type	DC
Number of horizontal rows	2
Status LED	1 LED (green)power ON
Polarity distribution	0 V or 24 V
Short-circuit protection	6.3 A internal fuse, 5 x 20 mm, fast blow (PLC end)
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	6.1 A
Current per channel	0.5 A
Maximum current per output common	6.1 A
Voltage drop on power supply fuse	0.2 V
[Ui] rated insulation voltage	2000 V
Installation category	II conforming to IEC 60664-1
Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Width	125 mm

<b>Net weight</b>	0.3 kg
<b>Environment</b>	
<b>Product certifications</b>	CSA LROS (Lloyds register of shipping) BV GL UL DNV
<b>IP degree of protection</b>	IP2x conforming to IEC 60529
<b>Resistance to incandescent wire</b>	750 °C conforming to IEC 60695-2-11
<b>Shock resistance</b>	15 gn for 11 ms conforming to IEC 60068-2-27
<b>Vibration resistance</b>	2 gn (f= 10...150 Hz) conforming to IEC 60068-2-6
<b>Resistance to electrostatic discharge</b>	4 kV (contact) level 3 conforming to IEC 61000-4-2 8 kV (air) level 3 conforming to IEC 61000-4-2
<b>Resistance to radiated fields</b>	10 V/m (26000000...1000000000 Hz) conforming to IEC 61000-4-3 level 3
<b>Resistance to fast transients</b>	2 kV level 3 conforming to IEC 61000-4-4
<b>Ambient air temperature for operation</b>	-5...60 °C conforming to IEC 61131-2
<b>Ambient air temperature for storage</b>	-40...80 °C conforming to IEC 61131-2
<b>Pollution degree</b>	2 conforming to IEC 60664-1

## Packing Units

<b>Package 1 Weight</b>	0.300 kg
<b>Package 1 Height</b>	0.710 dm
<b>Package 1 width</b>	0.820 dm
<b>Package 1 Length</b>	1.370 dm

## Offer Sustainability

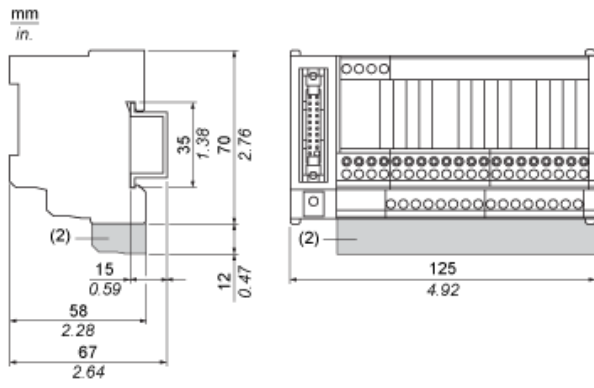
<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption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

## Contractual warranty

<b>Warranty</b>	18 months
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## Dimensions

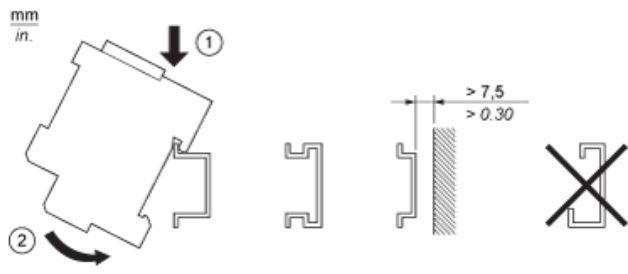
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(2) ABE7BV20 / ABE7BV20E

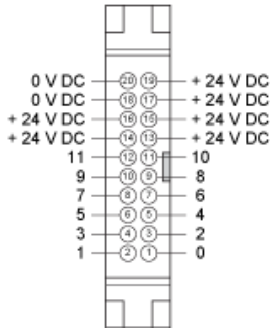
## Mounting

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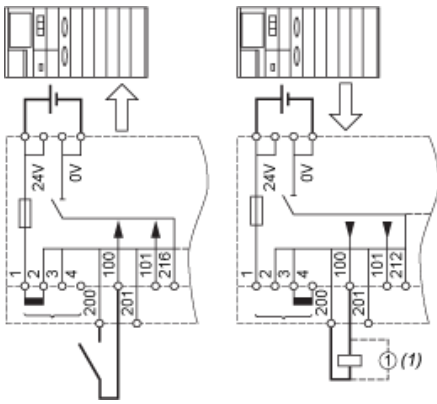
## HE10 12 Channels

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## Wiring Diagrams

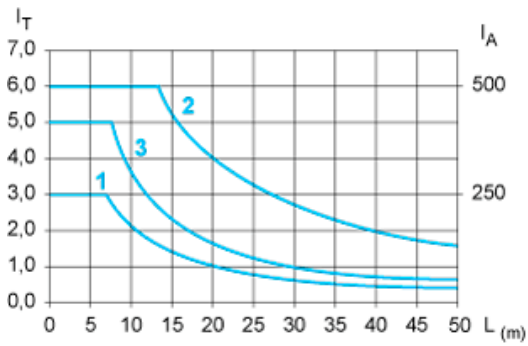
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(1) Inductive load

**Curves for Determining Cable Type and Length According to the Current**

**12-channel Sub-base**



- L Cable length  
 I<sub>T</sub> Total current per sub base (A)  
 I<sub>A</sub> Average current per channel (mA)  
 (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm<sup>2</sup> (AWG 28).  
 (2) TSXCDP••3 cables with c.s.a. 0.34 mm<sup>2</sup> (AWG 22).  
 (3) Cables with c.s.a. 0.13 mm<sup>2</sup> (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.

**Recommended replacement(s)**

ABE7H12R20 is replaced by:

1x



passive connection sub-base ABE7 - 16 inputs or outputs  
 ABE7H16R20