Specifications



connection sub-base ABE7 - for Twido modular base - 12 inputs 8 outputs - Led

ABE7B20MPN22

() Discontinued on: 23 Jan 2021

(!) Discontinued

Main

Range of product	Modicon ABE7
Product or component type	Passive discrete I/O sub-base
[Us] rated supply voltage	24 V DC for controller side 24 V DC for sensor/controller side
Number of channels	20
Number of terminal per channel	2
Connections - terminals	Screw type terminals, 1 x 0.091 x 1.5 mm ² (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 mm ² (AWG 28AWG 16) solid
Connector destination	Twido programmable controller

Complementary

1930 V DC (controller side) conforming to IEC 61131-2 20.426.4 V DC (sensor/controller side) conforming to IEC 61131-2
12
Sink
8
24 V
DC
TWDLMDA40DTK TWDLMDA20DTK
1 LED for power ON 1 LED per channel for channel status
1 common/12 channels for input 1 common/8 channels for output
2 A internal fuse, 5 x 20 mm, fast blow (controller side) 0.315 A fuse per channel, 5 x 20 mm, fast blow (output circuit)
HE-10
26 pins
By clips, mounting on 35 mm symmetrical DIN rail conforming to IEC 60715 By screws
2 A

Current per channel	0.0032 A
Switched current	15 mA for input circuit 300 mA for output circuit
Maximum current per output common	2 A
Voltage drop on power supply fuse	0.3 V
[Ui] rated insulation voltage	2000 V terminals/mounting rails
Overvoltage category	II conforming to IEC 60664-1
Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Net weight	0.43 kg

Environment

Standards	IEC 61131-2 Type 1
Product certifications	CSA UL
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 (800000002000000000 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	7.8 cm
Package 1 Width	9 cm
Package 1 Length	13.8 cm
Package 1 Weight	402 g

Contractual warranty

Warranty

18 months

Sustainability

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.

Learn more about Green Premium >

Guide to assess a product's sustainability >

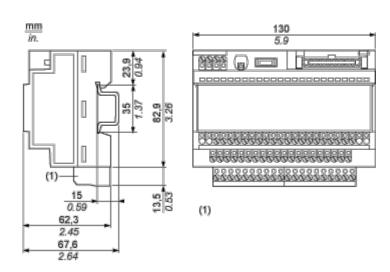
Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product datasheet

Dimensions Drawings

Dimensions

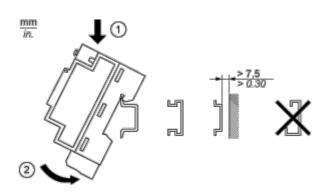


(1) ABE7BV10 / BV20 / BV20TB

Product datasheet

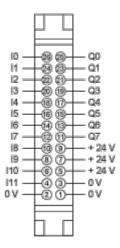
Mounting and Clearance

Mounting

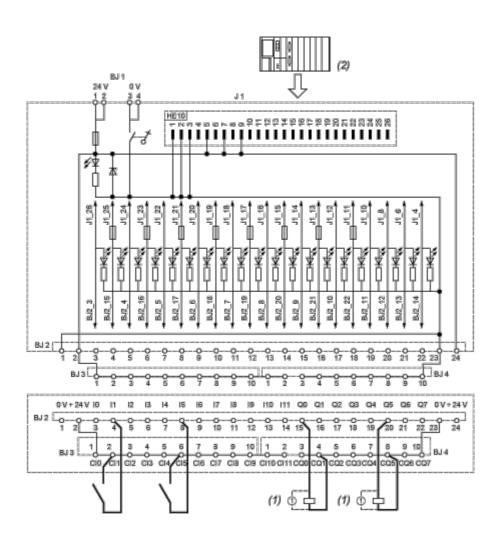


Connections and Schema

HE10 20 Channels



Wiring Diagram

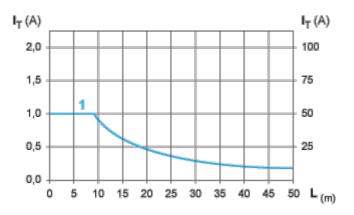


(1) Inductive load

(2) Input sink

Performance Curves

Curves for Determining Cable Type and Length According to the Current



- L Cable length
- I_T Total current per sub base (A)
- I_A Average current per channel (mA)
- (1) Cables ABFT2••••• c.s.a. 0.08 mm² (AWG 28)

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.