



Main

Range of Product	Modicon ABE7
Product or Component Type	Passive discrete I/O sub-base
[Us] rated supply voltage	24 V DC controller side 24 V DC sensor/controller side
Number of Channels	20
Number of terminal per channel	2
Connections - terminals	Screw type terminals, 1 x 0.09...1 x 1.5 mm ² AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm ² AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm ² AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm ² AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm ² AWG 28...AWG 16) solid
Connector destination	Twido programmable controller

Complementary

Supply voltage limits	19...30 V DC controller side)IEC 61131-2 20.4...26.4 V DC sensor/controller side)IEC 61131-2
Discrete input number	12
Discrete input logic	Sink
Discrete output number	8
Discrete output voltage	24 V
Discrete output voltage type	DC
Product Compatibility	TWDLMDA20DTK TWDLMDA40DTK
Status LED	1 LED power ON
Polarity distribution	1 common/12 channels input 1 common/8 channels output
Short-circuit protection	2 A internal fuse, 5 x 20 mm, fast blow controller side)
Connector Type	HE-10
Pin number	26 pins
Fixing mode	By clips 35 mm symmetrical DIN rail IEC 60715 By screws
Maximum supply current	2 A
Switched current	15 MA input circuit 300 mA 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
Overtoltage category	II IEC 60664-1
Tightening torque	5.31 lbf.in (0.6 N.m) flat Ø 3.5 mm
Net Weight	0.95 lb(US) (0.43 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Standards	IEC 61131-2 Type 1
Product Certifications	CSA[RETURN]UL
IP degree of protection	IP2X conforming to IEC 60529
Resistance to incandescent wire	1382 °F (750 °C) 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) 80000000...2000000000 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	3389110572247
Returnability	No
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.07 in (7.8 cm)
Package 1 Width	3.54 in (9 cm)
Package 1 Length	5.51 in (14 cm)
Package 1 Weight	11.71 oz (332 g)

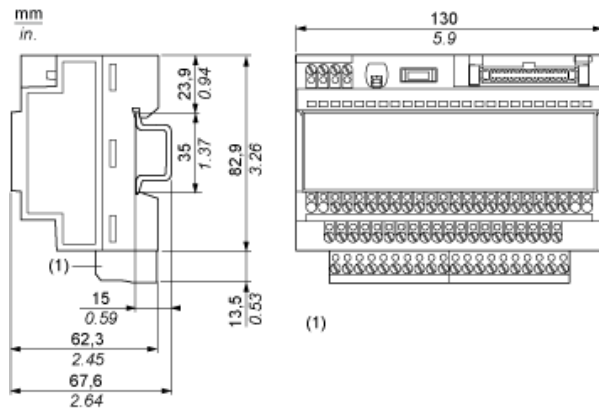
Offer Sustainability

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 www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

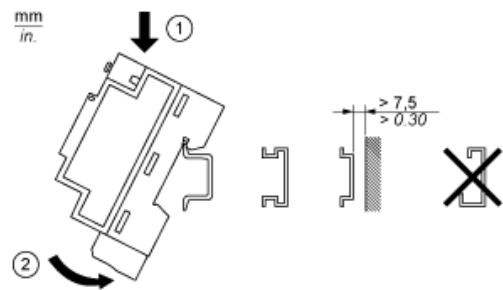
Warranty	18 months
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Dimensions

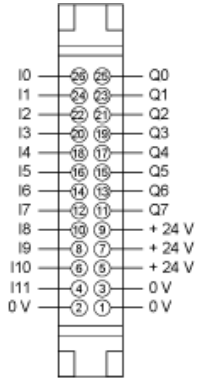


(1) ABE7BV10 / BV20 / BV20TB

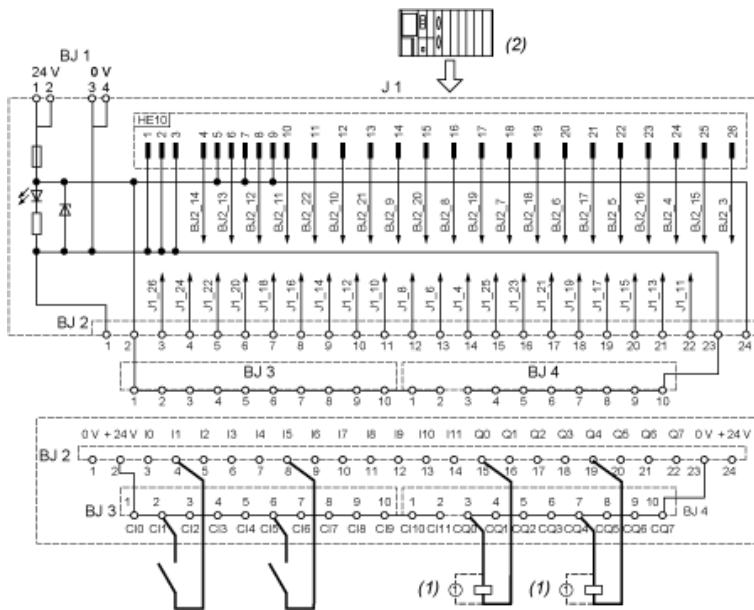
Mounting



HE10 20 Channels

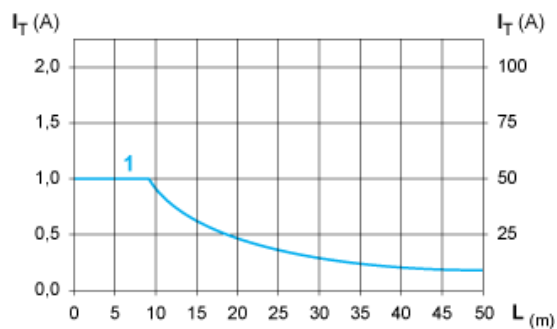


Wiring Diagram



- (1) Inductive load
- (2) Input sink

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.