Product data sheet
Characteristics

ABE7E16EPN20
connection sub-base ABE7 - for Twido extension - 16 inputs



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	16
Number of terminal per channel	2
Connections - terminals	Screw type terminals, 1 x 0.09...1 x 1.5 mm² AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm² AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm² 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	16
Discrete input logic	Sink
Discrete output voltage	24 V
Discrete output voltage type	DC
Product compatibility	TWDDDI16DK TWDDDI32DK
Status LED	1 LED power ON
Polarity distribution	1 common/16 channels input
Short-circuit protection	2 A internal fuse, 5 x 20 mm, fast blow controller side)
Connector type	HE-10
Pin number	20 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
Voltage drop on power supply fuse	0.3 V
[Ui] rated insulation voltage	2000 V terminals/mounting rails
Overvoltage 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)

Environment

Standards	IEC 61131-2 Type 1
Product certifications	CSA UL
IP degree of protection	IP2x IEC 60529
Resistance to incandescent wire	1382 °F (750 °C) IEC 60695-2-11
Shock resistance	15 gn 11 ms IEC 60068-2-27

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.
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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	00785901590347
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
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	15.30 lb(US) (6.94 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

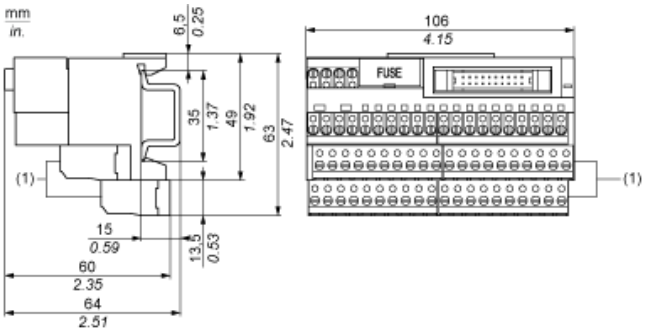
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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

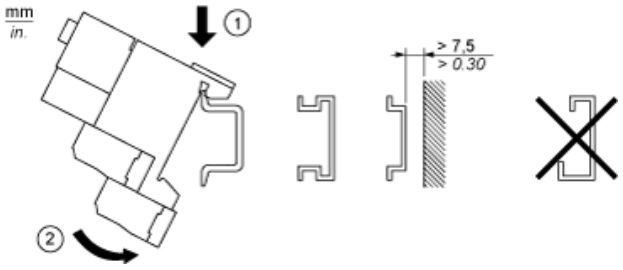
ABE7E16EPN20

Dimensions

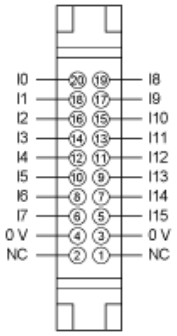


(1) ABE7BV10 / BV20 / BV20TB

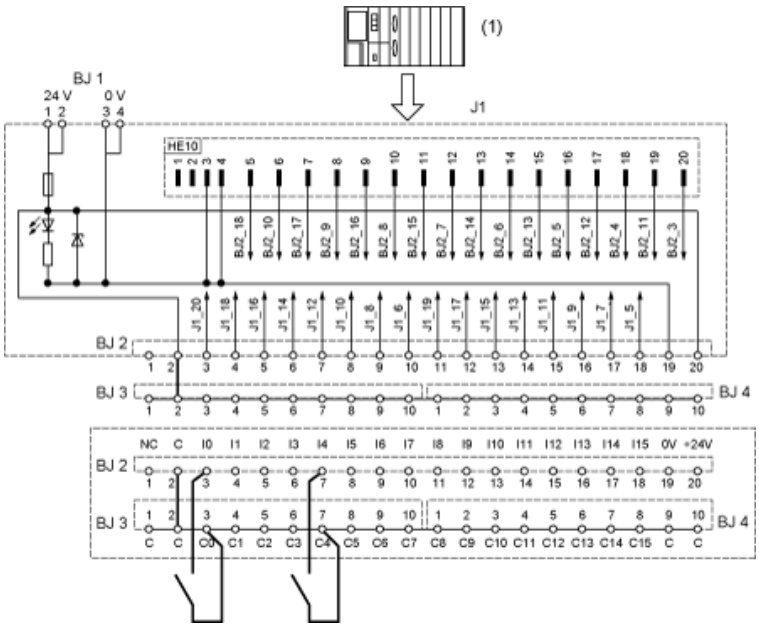
Mounting



HE10 16 Channels

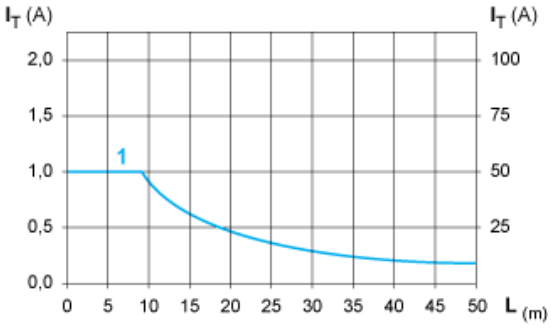


Wiring Diagram



(1) 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 mm^2 (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.