Product data sheet
Characteristics

ABE7E16SRM20
connection sub-base ABE7 - for Twido extension - 16 relay outputs

Product availability : Stock - Normally stocked in distribution facility

Price* : 247.00 USD

Main

Range of product	Advantys Telefast ABE7
Product or component type	Discrete output 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, clamping capacity: 1 x 0.09...1 x 1.5 mm² AWG 28...AWG 16 flexible with cable end Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 12 solid Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm² AWG 26...AWG 14 flexible without cable end Screw type terminals, clamping capacity: 2 x 0.09...2 x 0.75 mm² AWG 28...AWG 20 flexible with cable end Screw type terminals, clamping capacity: 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 conforming to IEC 61131-2 (controller side) 19...30 V DC conforming to IEC 61131-2 (sensor/controller side)
Discrete output number	16 relay output(s), 3000 mA
Discrete output voltage	110...250 V AC relay output(s) 24 V DC solid state output(s) 5...30 V DC relay output(s)
Discrete output function	1 NO
Product compatibility	TWDDDO16TK TWDDDO32TK
Status LED	1 LED power ON
Polarity distribution	1 common/4 channels relay output
Short-circuit protection	2 A internal fuse, 5 x 20 mm, fast blow (controller side)

Connector type	HE-10
Pin number	20
Fixing mode	By clips on 35 mm symmetrical DIN rail conforming to IEC 60715 By screws
Supply current	<= 2 A
Current per channel	0.009 A relay output(s)
Switched current	3000 mAfor relay output
Current per output common	5 A relay output
Voltage drop on power supply fuse	0.3 V
Voltage state 0 guaranteed	2 V relay output(s) (sensor/controller side)
Voltage state 1 guaranteed	16.8 V relay output(s)
Electrical durability	500000 cycles, maximum switching current: 2000 mA AC-12 relay output(s) (preactuator side) 500000 cycles, maximum switching current: 3000 mA DC-12 relay output(s) (preactuator side) 500000 cycles, maximum switching current: 400 mA AC-15 relay output(s) (preactuator side) 500000 cycles, maximum switching current: 500 mA DC-13 relay output(s) (preactuator side)
Minimum switching current	100 mA relay output(s)
Response time	<= 2.5 ms from state 1 to 0 relay output(s) <= 5 ms from state 0 to 1 relay output(s)
[Uimp] rated impulse withstand voltage	6 kV relay output(s)
Switching frequency	20 Hz relay
Mechanical durability	20000000 cyclesat 68 °F (20 °C)
[Ui] rated insulation voltage	2000 V between terminals/mounting rails 300 V between coil circuit/contact circuits conforming to IEC 60947-1
Overvoltage category	II conforming to IEC 60664-1
Tightening torque	5.31 lbf.in (0.6 N.m) (with flat Ø 3.5 mm)
Product weight	0.95 lb(US) (0.43 kg)

Environment

Product certifications	CSA UL
IP degree of protection	IP2x conforming to IEC 60529
Resistance to incandescent wire	1382 °F (750 °C) conforming to IEC 60695-2-11
Shock resistance	15 gn 11 ms conforming to IEC 60068-2-27
Vibration resistance	2 gn (f = 10...150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	4 kV (contact) conforming to IEC 61000-4-2 level 3 8 kV (air) conforming to IEC 61000-4-2 level 3
Resistance to radiated fields	9.14 V/yd (10 V/m) (80000000...2000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
Ambient air temperature for operation	23...140 °F (-5...60 °C) conforming to IEC 61131-2
Ambient air temperature for storage	-40...176 °F (-40...80 °C) conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901590323
Nbr. of units in pkg.	1
Package weight(Lbs)	0.83999999999999997
Returnability	Y
Country of origin	LV

Offer Sustainability

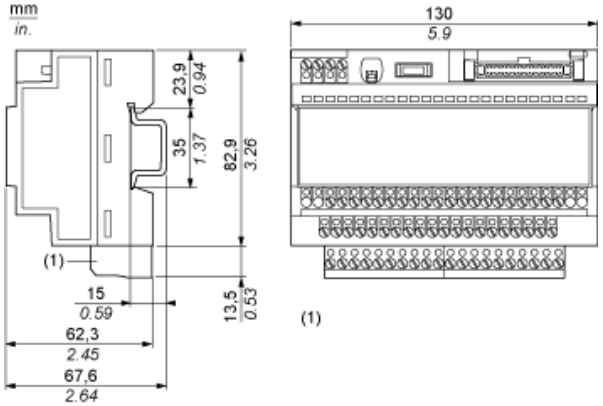
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity

	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

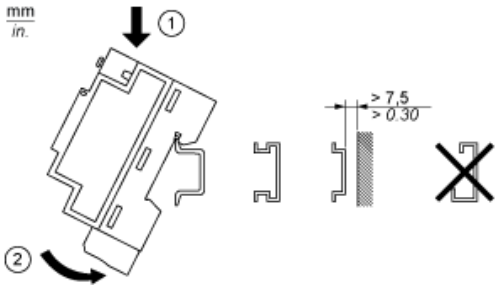
Warranty period	18 months

Dimensions

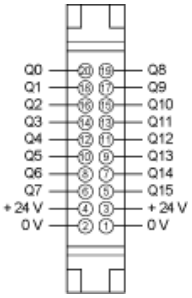


(1) ABE7BV10 / BV20 / BV20TB

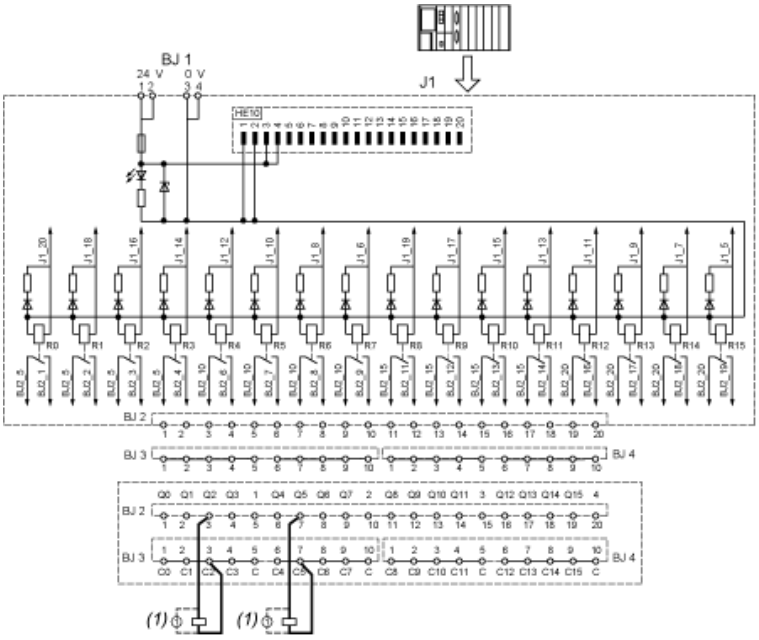
Mounting



HE10 16 Channels

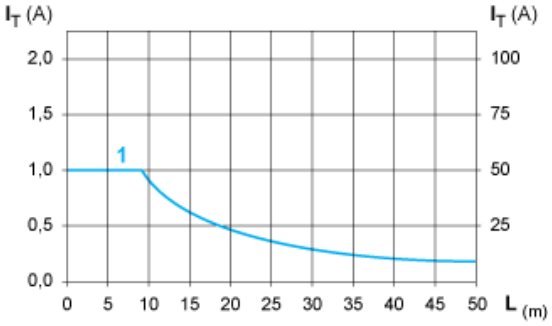


Wiring Diagram



(1) Inductive load

Curves for Determining Cable Type and Length According to the Current

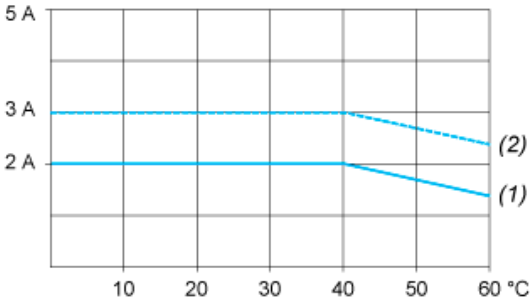


L Cable length
I_T Total current per sub base (A)
I_A Average current per channel (mA)
(1) Cables ABFT2••••• c.s.a. 0.08 mm^2 (AWG 28)

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.

Temperature Derating Curves

Electromechanical Relay Outputs

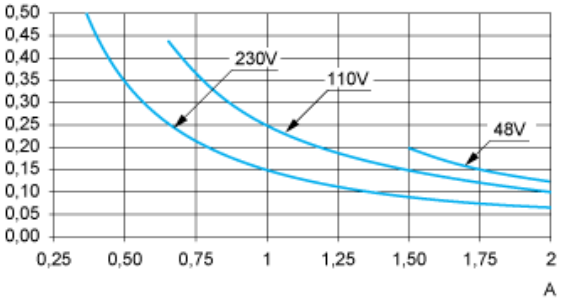


(1) 100 % of channels used
(2) 50 % of channels used

Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

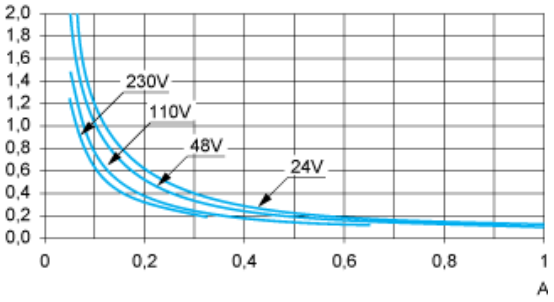
DC Loads

DC12 curves



DC12 control of resistive loads and of solid state loads isolated by optocoupler, I/R ≤ 1 ms.

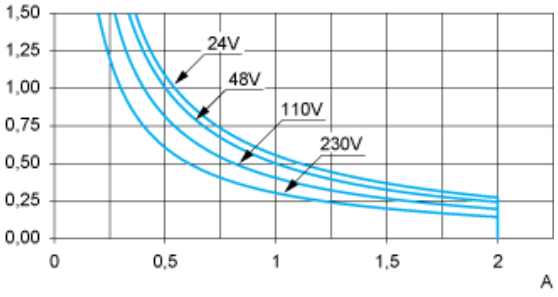
DC13 curves



DC13 switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: rated operational current (with a protective diode on the load, DC

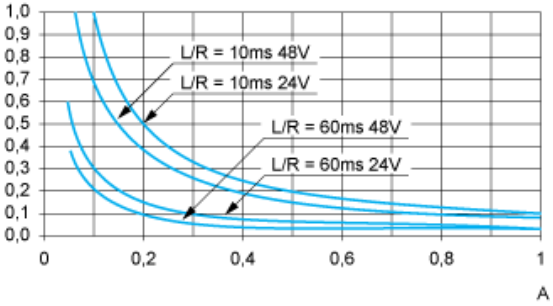
AC Loads

AC12 curves



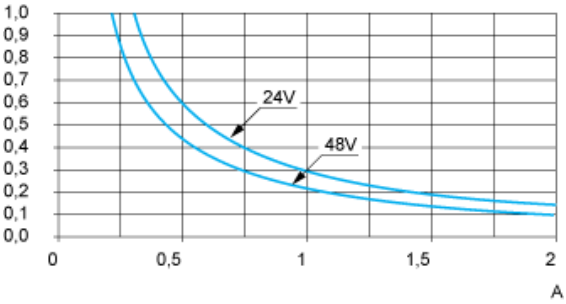
AC12 control of resistive loads and of solid state loads isolated by optocoupler, cos ϕ ≥ 0.9.

AC14 curves



AC14 control of small electromagnetic loads ≤ 72 VA, make: cos ϕ = 0.3, break: cos ϕ = 0.3.

AC15 curves



AC15 control of electromagnetic loads > 72 VA, make: cos ϕ = 0.7, break: cos ϕ = 0.4.