# **Product datasheet**

Specifications





## sub-base - soldered solid state output relay ABE7 - 16 inputs -115 V AC

Local distributor code: 402703688

ABE7S16E2F0

#### EAN Code: 3389110546279

## Main

Range Of Product	Modicon ABE7
Product Or Component Type	Solid state input relay sub-base
[Us] Rated Supply Voltage	110/130 V AC 50/60 Hz (sensor end) 24 V DC (PLC end)
Number Of Channels	16
Number Of Terminal Per Channel	2
Connections - Terminals	Screw type terminals, 1 x 0.091 x 1.5 mm <sup>2</sup> , 0.091.5 mm <sup>2</sup> (AWG 28AWG 16) flexible with cable end
	Screw type terminals, 1 x 0.141 x 2.5 mm <sup>2</sup> , 0.142.5 mm <sup>2</sup> (AWG 26AWG 12) solid
	Screw type terminals, 1 x 0.141 x 2.5 mm², 0.142.5 mm² (AWG 26AWG 14) flexible without cable end
	Screw type terminals, 2 x 0.092 x 0.75 mm², 0.090.75 mm² (AWG 28AWG 20) flexible with cable end
	Screw type terminals, 2 x 0.22 x 2.5 mm², 0.22.5 mm² (AWG 24AWG 14) solid

## Complementary

Removable
1930 V DC (PLC end) conforming to IEC 61131-2
Yes
Internal fuse 1 A 5 x 20 mm fast blow PLC end Adjustable by external fuse fast blow sensor end
By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
0.0083 A
>= 5 mA (sensor end)
>= 79 V for sensor end
15 mA (PLC end)
1 mA for PLC end
<= 20 ms from state 0 to 1 <= 20 ms from state 1 to 0
<= 25 Hz duty cycle: 50 %
2.5 kV conforming to IEC 60947-1
2000 V
II conforming to IEC 60664-1
0.6 N.m with flat Ø 3.5 mm screwdriver
206 mm

Height	77 mm
Depth	58 mm
Net Weight	0.397 kg

# Environment

Dielectric Strength	2000 V at 50/60 Hz conforming to IEC 60947-1
Product Certifications	UL GL DNV CSA EAC
Standards	IEC 61131-2 Type 1
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 (260000001000000000 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 cm
Package 1 Width	8.2 cm
Package 1 Length	21.2 cm
Package 1 Weight	475 g
Unit Type Of Package 2	\$03
Number Of Units In Package 2	16
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.093 kg

# **Contractual warranty**

Warranty

18 months

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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 >



Transparency RoHS/REACh

## Well-being performance

Mercury Free

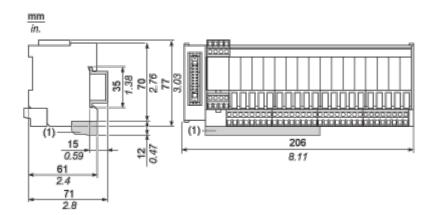
Rohs Exemption Information
 Yes

## **Certifications & Standards**

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

**Dimensions Drawings** 

#### Dimensions

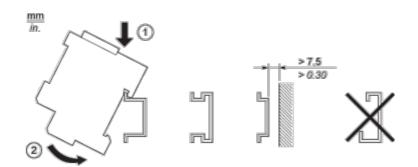


(1) ABE7BV20 / ABE7BV20E

## **Product datasheet**

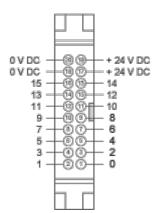
Mounting and Clearance

#### Mounting

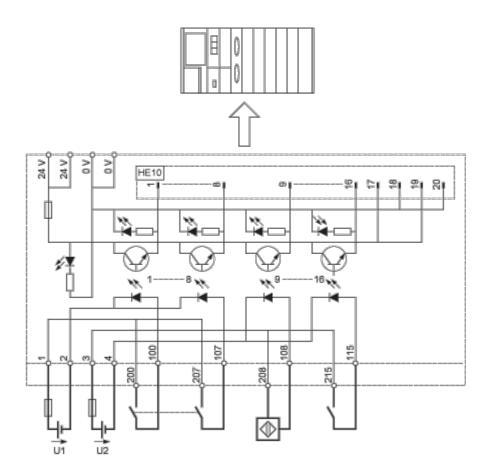


Connections and Schema

#### HE10 16 Channels



### Wiring Diagram



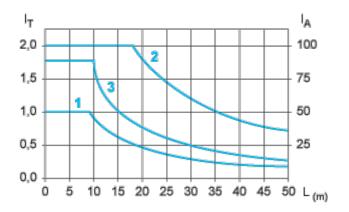
ABE7	U1, U2
S16E2B1 / E2B1E	24 VDC
S16E2E1 / E2E1E	48 VDC
S16E2E0 / E2E0E	48 VAC
S16E2F0 / E2F0E	115 VAC
S16E2M0 / E2M0E	230 VAC

## ABE7S16E2F0

## Performance Curves

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

#### 16-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  $\text{mm}^2$  (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.