# **Product datasheet**

Specification





## sub-base - soldered solid state output relay ABE7 - 16 outputs -0.5 A

ABE7S16S1B2

### Main

Range of product	Modicon ABE7	
Product or component type	Solid state output relay sub-base	
[Us] rated supply voltage	24 V DC for PLC end 24 V DC for preactuator end	
Number of channels	16	
Relay type	Soldered solid state relay	

## Complementary

Terminal block type	Removable
Isolation PLC/operative part	No
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Current state 0 guaranteed	0.4 mA (PLC end)
Voltage state 0 guaranteed	3.4 V for PLC end
Current state 1 guaranteed	3.1 mA (PLC end)
Voltage state 1 guaranteed	16.9 V for PLC end
Maximum current per output common	9 A
Current per channel	0.5 A for preactuator end
Minimum switching current	1 mA
Drop-out voltage	0.3 V (preactuator end)
Maximum switching current	700 mA DC-12 700 mA DC-13
Maximum tungsten load	<10 W DC-6
Maximum residual current	0.5 mA preactuator end
Fault type	Short-circuit Overload
Fault indication	Without
Switchable inductive energy L/R	<= 400(U.I) ms
Maximum circuit breaker threshold	0.75 A
Response time	<= 0.1 ms from state 1 to 0 <= 0.2 ms from state 0 to 1
Switching frequency	< 0.6/Ll² Hz
Installation category	Il conforming to IEC 60664-1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver	
Width	125 mm	
Net weight	0.4 kg	

## **Environment**

Product certifications	GL UL
	DNV
	CSA
	EAC
IP degree of protection	IP2X conforming to IEC 60529
protective treatment	TC
Resistance to incandescent wire	750 °C, extinction time <30 s conforming to IEC 60695-2-11
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
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	7.1 cm
Package 1 Width	8.3 cm
Package 1 Length	13.6 cm
Package 1 Weight	343.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.431 kg

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance



Mercury Free



Rohs Exemption Information

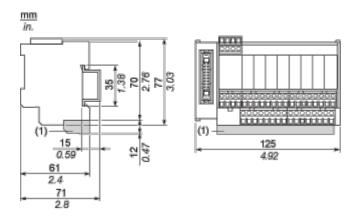
Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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**

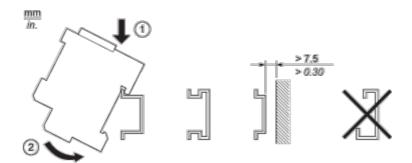


(1) ABE7BV20 / ABE7BV20E

### ABE7S16S1B2

Mounting and Clearance

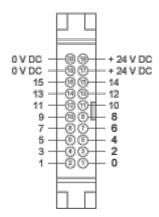
#### Mounting



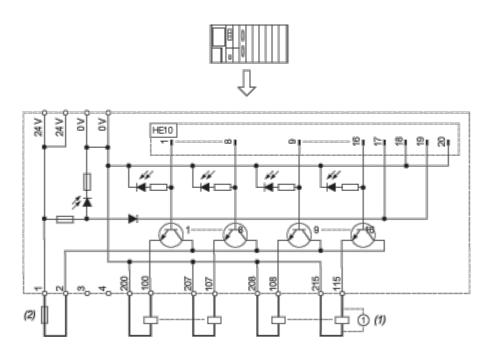
### ABE7S16S1B2

Connections and Schema

#### HE10 16 Channels



#### Wiring Diagram

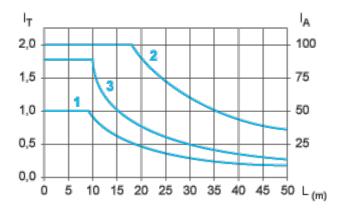


- (1) Inductive load
- (2) AB1FUSE435U5X + quick acting FUSE 5 x 20 type F.

#### Performance Curves

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

#### 16-channel Sub-base



- L Cable length
- $I_{\mathsf{T}}$  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 mm<sup>2</sup> (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.