

# Product data sheet

Specifications



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

ABE7S16S2B0

### 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
Number of terminal per channel	2
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	8 A
Current per channel	0.5 A for preactuator end
Minimum switching current	1 mA
Drop-out voltage	0.6 V (preactuator end)
Maximum switching current	500 mA DC-12 500 mA DC-13
Maximum tungsten load	<10 W DC-6
Maximum residual current	0.3 mA preactuator end
Fault type	Overload Short-circuit
Fault indication	Yes
Switchable inductive energy L/R	<= 400(U.I) ms
Maximum circuit breaker threshold	0.75 A
Response time	<= 0.02 ms from state 1 to 0 <= 0.1 ms from state 0 to 1
Switching frequency	< 0.6/LI <sup>2</sup> Hz

<b>Installation category</b>	II conforming to IEC 60664-1
<b>Tightening torque</b>	0.6 N.m with flat Ø 3.5 mm screwdriver
<b>Width</b>	206 mm
<b>Net weight</b>	0.405 kg

## Environment

<b>Product certifications</b>	UL GL CSA DNV EAC
<b>IP degree of protection</b>	IP2X conforming to IEC 60529
<b>Protective treatment</b>	TC
<b>Resistance to incandescent wire</b>	750 °C, extinction time <30 s conforming to IEC 60695-2-11
<b>Shock resistance</b>	15 gn for 11 ms conforming to IEC 60068-2-27
<b>Resistance to radiated fields</b>	10 V/m (26000000...1000000000 Hz) conforming to IEC 61000-4-3 level 3
<b>Resistance to fast transients</b>	2 kV level 3 conforming to IEC 61000-4-4
<b>Ambient air temperature for operation</b>	-5...60 °C conforming to IEC 61131-2
<b>Ambient air temperature for storage</b>	-40...80 °C conforming to IEC 61131-2
<b>Pollution degree</b>	2 conforming to IEC 60664-1

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.0 cm
<b>Package 1 Width</b>	8.2 cm
<b>Package 1 Length</b>	21.0 cm
<b>Package 1 Weight</b>	456.0 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	16
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	7.971 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 1039

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 1bbe7d20-74c0-4e7e-b98b-d2946f4ab8b4

REACH Regulation [REACH Declaration](#)

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](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

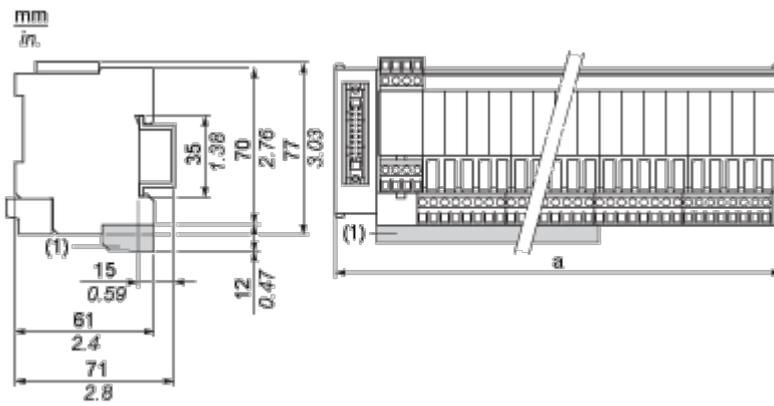
End of life manual availability [End of Life Information](#)

Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions



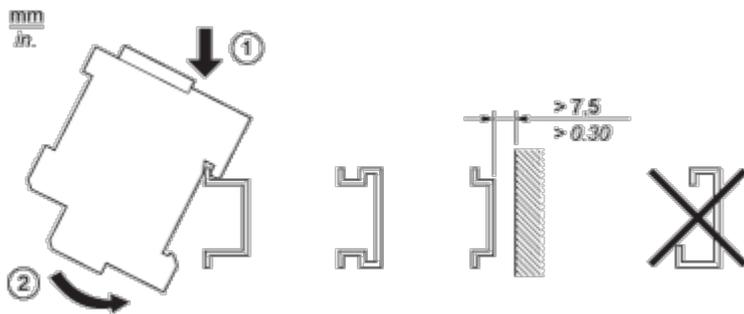
(1) ABE7BV20 / ABE7BV20E

ABE7	a in mm	a in in.
S08S2B0 / S08S2B0E	125	4.92
S08S2B1 / S08S2B1E	206	8.11
S16S2B0 / S16S2B0E	206	8.11

Mounting and Clearance

Mounting

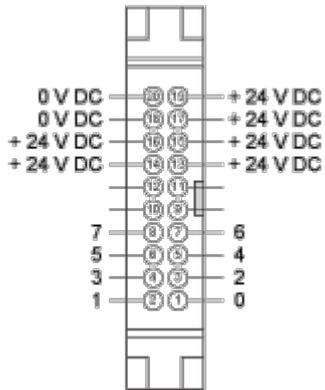
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Connections and Schema

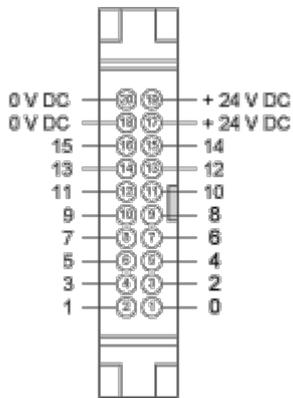
HE10 8 Channels

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HE10 16 Channels

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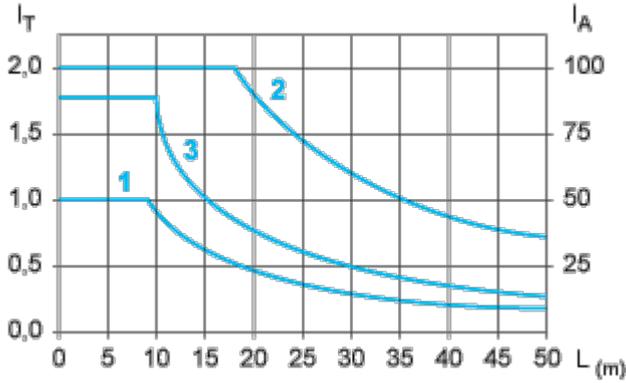




Performance Curves

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 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.

Image of product / Alternate images

Alternative

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