Product data sheet

Specifications



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

ABE7S16S2B0

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon ABE7
Product or Component Type	Solid state output relay sub-base
[Us] rated supply voltage	24 V DC PLC end 24 V DC 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 PLC end
Current state 1 guaranteed	3.1 mA PLC end)
Voltage state 1 guaranteed	16.9 V PLC end
Maximum current per output common	8 A
Current per channel	0.5 A 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/LI² Hz
Installation category	II 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.

Disclaimer: 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

Tightening torque	5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm
Width	8.1 in (206 mm)
Net Weight	0.893 lb(US) (0.405 kg)

Environment

Product Certifications	UL GL CSA DNV EAC
IP degree of protection	IP2X conforming to IEC 60529
Protective treatment	TC
Resistance to incandescent wire	1382 °F (750 °C) 30 s IEC 60695-2-11
Shock resistance	15 gn 11 ms IEC 60068-2-27
Resistance to radiated fields	9.1 V/m (10 V/m) 26000000…1000000000 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	US10CP222375
Discount Schedule	0CP2
GTIN	3389110546293
Returnability	No
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.8 in (7.0 cm)
Package 1 Width	3.2 in (8.2 cm)
Package 1 Length	8.3 in (21.0 cm)
Package weight(Lbs)	16.08 oz (456.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.8 in (30.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	17.573 lb(US) (7.971 kg)

Contractual warranty

Warranty (in months)	18

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	**62 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**13 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**49 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**1bbe7d20-74c0-4e7e-b98b-d2946f4ab8b4**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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**

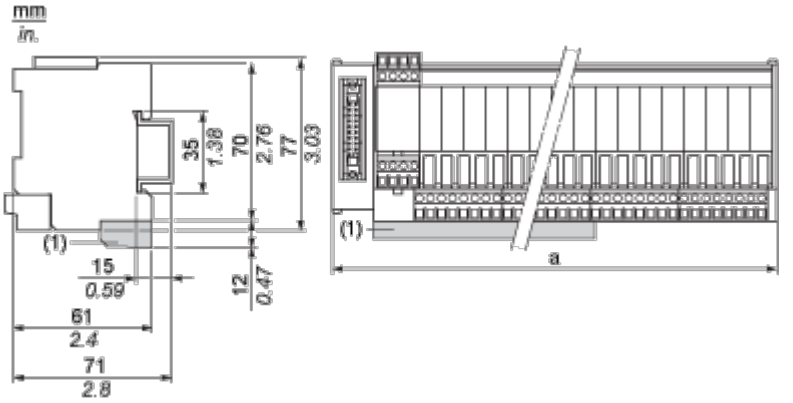
Use Again

Repack and remanufacture

Recyclability potential, in %	**6**
Circularity Profile	**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

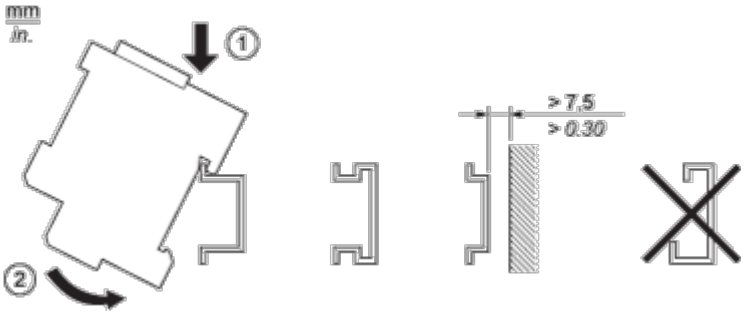


(1) ABE7BV20 / ABE7BV20E

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

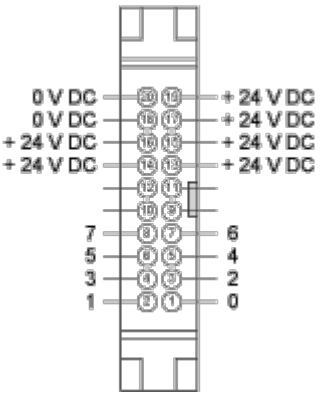
Mounting and Clearance

Mounting

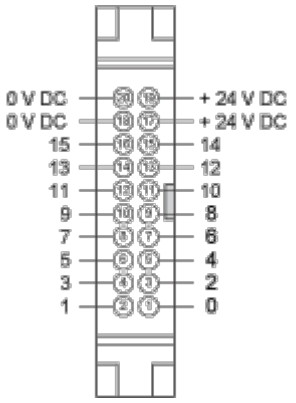


Connections and Schema

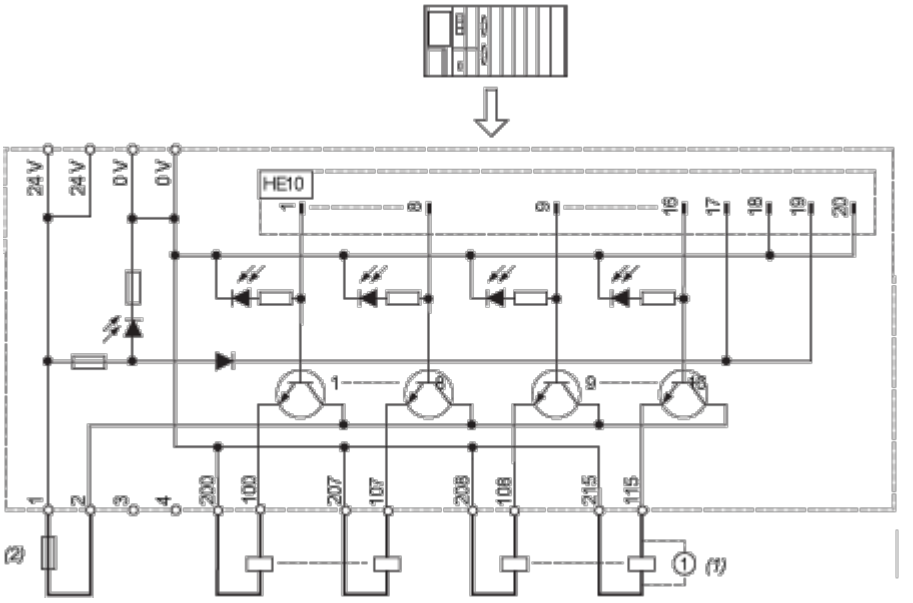
HE10 8 Channels



HE10 16 Channels



Wiring Diagram



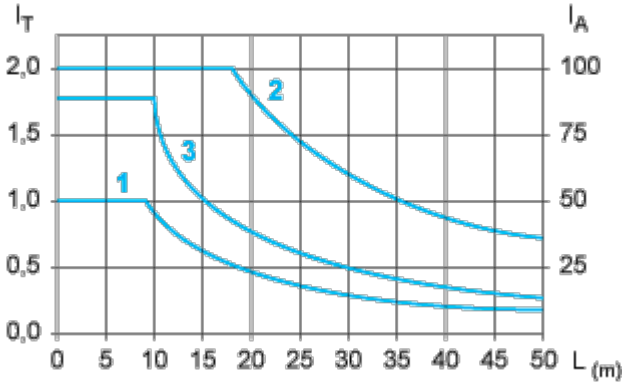
(1) Inductive load

(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_T Total current per sub base (A)

I_A Average current per channel (mA)

(1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm^2 (AWG 28).

(2) TSXCDP••3 cables with c.s.a. 0.34 mm^2 (AWG 22).

(3) Cables with c.s.a. 0.13 mm^2 (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

