Product datasheet
Characteristics

ABE7S16S1B2E
sub-base - soldered solid state output relay ABE7 - 16 outputs - 0.5 A

Discontinued

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
Connections - terminals	Spring terminal, 1 x 0.09...1 x 1.5 mm² (AWG 28...AWG 16) flexible with cable end Spring terminal, 1 x 0.14...1 x 2.5 mm² (AWG 26...AWG 12) solid Spring terminal, 1 x 0.14...1 x 2.5 mm² (AWG 26...AWG 14) flexible without cable end

Complementary

Terminal block type	Removable
Supply voltage limits	19…30 V DC (PLC end) conforming to IEC 61131-2 30 V DC (preactuator end) conforming to IEC 61131-2
Isolation PLC/operative part	No
Protection type	Internal fuse 2 A 5 x 20 mm fast blow PLC end Adjustable by external fuse 5 x 20 mm fast blow preactuator end
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Width	125 mm
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/LI² Hz
Installation category	II conforming to IEC 60664-1
Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Product weight	0.4 kg

Environment

IP degree of protection	IP2x conforming to IEC 60529
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
Vibration resistance	2 gn (f= 10…150 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 (26000000…1000000000 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	-5…60 °C conforming to IEC 61131-2
Ambient air temperature for storage	-40…80 °C conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

Packing Units

Package 1 Weight	0.300 kg
Package 1 Height	0.660 dm
Package 1 width	1.400 dm
Package 1 Length	0.800 dm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months

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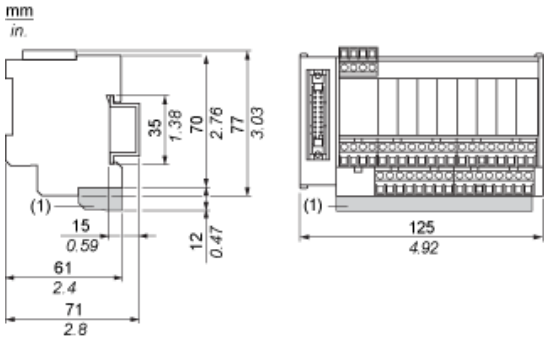
Dimensions



(1) ABE7BV20 / ABE7BV20E

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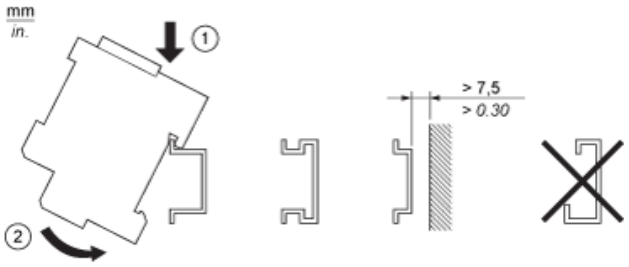
Mounting



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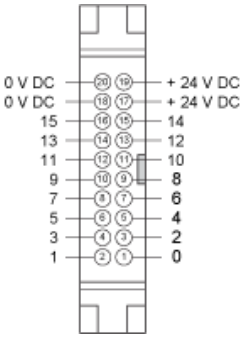
HE10 16 Channels



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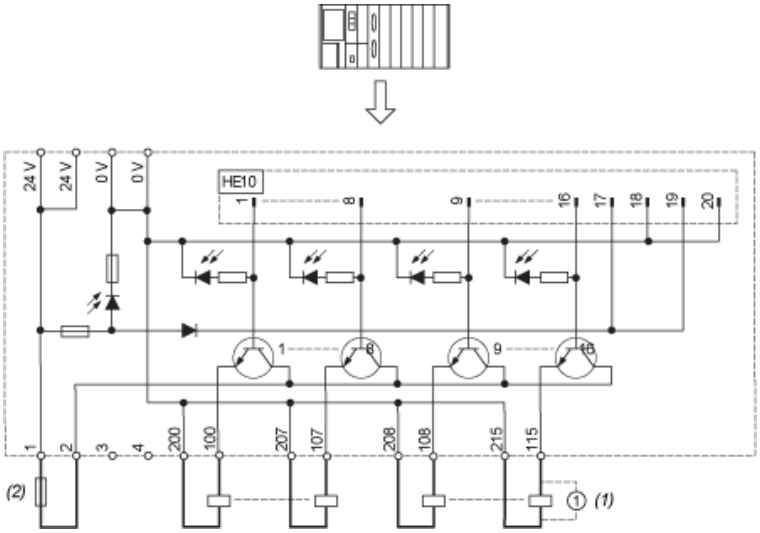
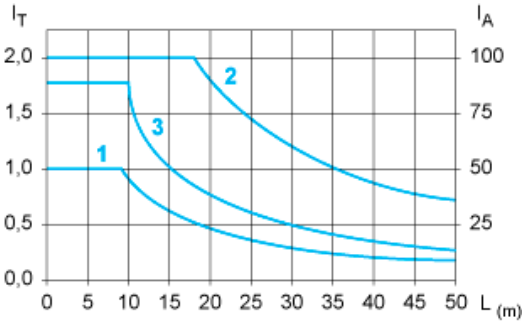
Wiring Diagram



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

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.

ABE7S16S1B2E is replaced by:

Interfaces for PLCs ABE7S16S1B2

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

Qty 1