ABE7S16E2M0

sub-base - soldered solid state output relay ABE7 - 16 inputs - 230 V AC



Main

Range of product	Advantys Telefast ABE7
Product or component type	Solid state input relay sub-base
[Us] rated supply voltage	230/240 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, clamping capacity: 1 x 0.091 x 1.5 mm², cable cross section: 0.091.5 mm² AWG 2816 flexible with cable end Screw type terminals, clamping capacity: 1 x 0.141 x 2.5 mm², cable cross section: 0.142.5 mm² AWG 2612 solid Screw type terminals, clamping capacity: 1 x 0.141 x 2.5 mm², cable cross section: 0.142.5 mm² AWG 2614 flexible without cable end Screw type terminals, clamping capacity: 2 x 0.092 x 0.75 mm², cable cross section: 0.090.75 mm² AWG 2820 flexible with cable end Screw type terminals, clamping capacity: 2 x 0.090.75 mm², cable cross section: 0.225 mm², cable cross section: 0.225 mm², cable cross section: 0.22.5 mm² AWG 2414 solid

Complementary

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Terminal block type	Removable	
Supply voltage limits	1930 V DC (PLC end) conforming to IEC 61131-2	
Isolation PLC/operative part	Yes	
Protection type	Adjustable by external fuse, fast blow type at sensor end Internal fuse of 1 A (5 x 20 mm), fast blow type at PLC end	
Fixing mode	By clips on 35 mm symmetrical DIN rail By screws on solid plate with fixing kit	
[le] rated operational current AC	<= 0.008 A	
Current state 1 guaranteed	>= 4.5 mA (sensor end)	
Voltage state1 guaranteed	>= 164 V (sensor end)	
Maximum switching current	15 mA (PLC end)	
Minimum switching current	1 mA (PLC end)	
Response time	<= 20 ms from state 0 to 1 <= 20 ms from state 1 to 0	
Switching frequency	<= 25 Hz duty cycle: 50 %	
[Uimp] rated impulse withstand voltage	2.5 kV conforming to IEC 60947-1	
[Ui] rated insulation voltage	2000 V	
Installation category	II conforming to IEC 60664-1	
Tightening torque	0.6 N.m (withflat Ø 3.5 mm	
Product weight	0.407 kg	

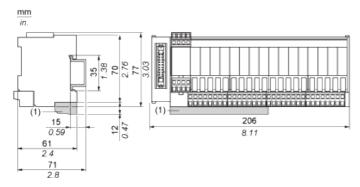
Environment

Dielectric strength	2000 V 50/60 Hz conforming to IEC 60947-1	
Product certifications	BV	_
	CSA	
	DNV	
	GL	
	LROS (Lloyds register of shipping)	
Standards	IEC 61131-2 Type 1	_
IP degree of protection	IP2x conforming to IEC 60529	



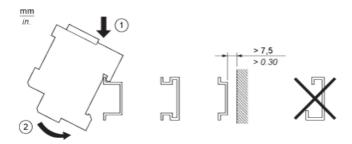
Resistance to incandescent wire	750 °C conforming to IEC 60695-2-11
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	2 gn (f = 10150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	4 kV (contact) conforming to IEC 61000-4-2 level 3 8 kV (air) conforming to IEC 61000-4-2 level 3
Resistance to radiated fields	10 V/m (260000001000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
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

Dimensions

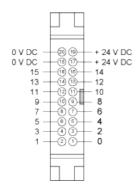


(1) ABE7BV20 / ABE7BV20E

Mounting



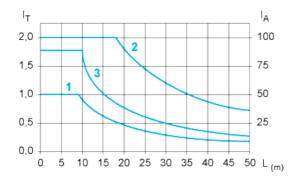
HE10 16 Channels



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 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (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.