Product data sheet Characteristics

ABE7R16S210

sub-base - soldered electromechanical relays ABE7 - 16 channels - relay 10 mm





Main

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Main		ci sbe
Range of product	Advantys Telefast ABE7	s fo
Product or component type	Electromechanical output relay sub-base	od uct
[Us] rated supply voltage	24 V DC (PLC end)	 ee
Number of channels	16	t e
Number of terminal per channel	2	ability c
Complementary		ty or reli
Terminal block type	Removable	uitabili

Complementary

Terminal block type	Removable
Polarity distribution	Volt-free
Fixing mode	By clips on 35 mm symmetrical DIN rail By screws on solid plate with fixing kit
Width	206 mm
Current per output common	<= 10 A
Current per channel	5 A (preactuator end)
Minimum switching current	10 mA at >= 5 V
Drop-out voltage	2.4 V at 20 °C (PLC end)
Switching frequency	<= 10 Hz <= 0.5 Hz
Threshold tripping voltage	At 40 °C
Drop-out current	1 mA at 20 °C
Power dissipation per channel in W	<= 0.36 W (PLC end)
Contacts type and composition	1 NO (preactuator end)
Maximum switching voltage	250 V AC 50/60 Hz conforming to IEC 60947-5-1 30 V DC conforming to IEC 60947-5-1
Electrical durability	500000 cycles, maximum switching current: 1500 mA at 230 V AC-12 (preactuator end) 500000 cycles, maximum switching current: 1500 mA at 24 V DC-12 (preactuator end) 500000 cycles, maximum switching current: 600 mA at 24 V DC-13 10 ms (preactuator end) 500000 cycles, maximum switching current: 900 mA at 230 V AC-15 (preactuator end)
Electrical reliability	1e-008



Operating time	<= 10 ms between coil energisation and NO closing <= 5 ms between coil de-energisation and NO opening
Contact bounce time	<= 5 ms 1 NO
Operating rate in Hz	10 Hz no load 0.5 Hz at le
Mechanical durability	2000000 cycles
[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	0.405 kg

Environment

Max immunity to microbreaks	<= 5 ms
Dielectric strength	2000 V conforming to IEC 60947-1
Product certifications	DNV CSA BV LROS (Lloyds register of shipping) UL GL
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 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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0841 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	End of life manual
Product end of life instructions	Available
	Erd of life manual

Contractual warranty

Warranty period

18 months

Dimensions



(1) ABE7BV20 / ABE7BV20E

ABE7	a in mm	a in in.
R16S111 / R16S111E	125	4.92
R16S21 / R16S21•E	206	8.11

Product data sheet Mounting and Clearance

ABE7R16S210

Mounting mm in. 1 > 7,5 > 0.30 Ц Ľ N ۲ 2

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4

Product data sheet

ABE7R16S210

Connections and Schema

HE10 16 Channels



Wiring Diagram



Curves for Determining Cable Type and Length According to the Current





(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.

Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

Multiply all durability values by 0.75 for ABR7S23.







DC13 switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with a protective diode on the load, DC

AC Loads



AC12 control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.



AC14 control of small electromagnetic loads \leq 72 VA, make: cos ϕ = 0.3, break: cos ϕ = 0.3.



AC15 control of electromagnetic loads > 72 VA, make: $\cos \phi = 0.7$, break: $\cos \phi = 0.4$.