

Product datasheet

Specifications



plug-in electromechanical relay - 12.5 mm - 48 V DC - 1 CO

Local distributor code: 395510470 ABR7S33E

⚠ To be discontinued

Main

Range of product	Advantys Telefast ABE7
Product or component type	Plug-in electromechanical relay
Control circuit type	DC
Quantity per set	Set of 4

Complementary

Width pitch dimension	12 mm
Product compatibility	ABE7P16T330 ABE7R16T330 ABE7P16T330E ABE7P16T332 ABE7P08T330 ABE7P16T318E ABE7R16T332 ABE7P16T334 ABE7P16T318 ABE7P08T330E
[Uc] control circuit voltage	48 V
[Ith] conventional free air thermal current	8 A
Threshold tripping voltage	16.8 V at 40 °C
Drop-out voltage	3.6 V at 20 °C
Drop-out current	3.5 mA at 20 °C
Maximum power dissipation per pole	0.6 W
Associated fuse rating	1 A
Maximum switching voltage	130 V DC conforming to IEC 60947-5-1 264 V AC 50/60 Hz conforming to IEC 60947-5-1
Electrical durability	500000 cycles, maximum switching current: 1400 mA at 24 V DC-13 10 ms 500000 cycles, maximum switching current: 1700 mA at 230 V AC-15 500000 cycles, maximum switching current: 3000 mA at 230 V AC-12 500000 cycles, maximum switching current: 3000 mA at 24 V DC-12
Minimum switching current	100 mA at ≥ 5 V
Electrical reliability	1e-008
Operating time	≤ 13 ms coil de-energisation and NO opening ≤ 13 ms coil energisation and NO closing
Contact bounce time	≤ 1.6 ms 1 NO

<= 5.5 ms 1 NC

Operating rate in Hz	5 Hz no load 0.5 Hz at le
Mechanical durability	20000000 cycles
[Uimp] rated impulse withstand voltage	2.5 kV conforming to IEC 60947-1
Net weight	0.017 kg

Environment

Max immunity to microbreaks	5 ms
Dielectric strength	2000 V conforming to IEC 60947-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	19 g
Package 1 Height	3.4 cm
Package 1 width	4.5 cm
Package 1 Length	6 cm
Unit Type of Package 2	CAR
Number of Units in Package 2	4
Package 2 Weight	84 g
Package 2 Height	3.4 cm
Package 2 width	4.5 cm
Package 2 Length	6 cm
Unit Type of Package 3	S01
Number of Units in Package 3	72
Package 3 Weight	1.737 kg
Package 3 Height	15 cm
Package 3 width	15 cm
Package 3 Length	40 cm

Offer Sustainability

REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
PVC free	Yes

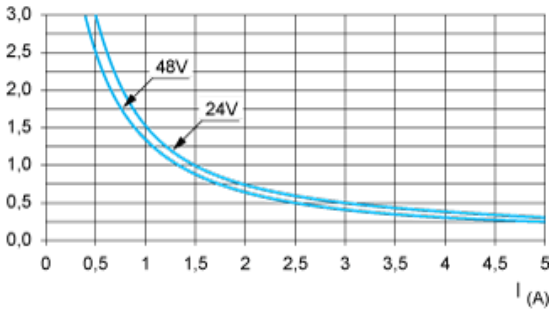
Contractual warranty

Warranty	18 months
-----------------	-----------

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

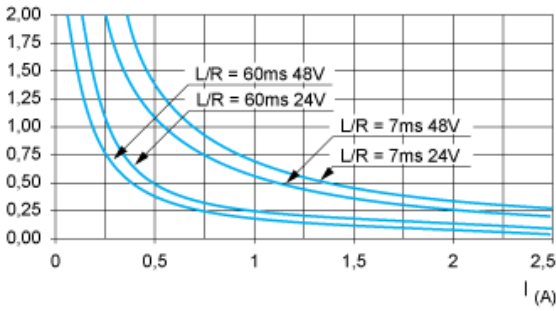
DC Loads

DC12 curves



DC12 control of resistive loads and of solid state loads isolated by optocoupler, $I/R \leq 1$ ms.

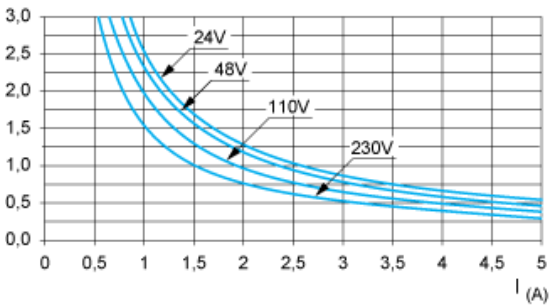
DC13 curves



DC13 Switching electromagnets, $L/R \leq 2 \times (U_e \times I_e)$ in ms, U_e : rated operational voltage, I_e : rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

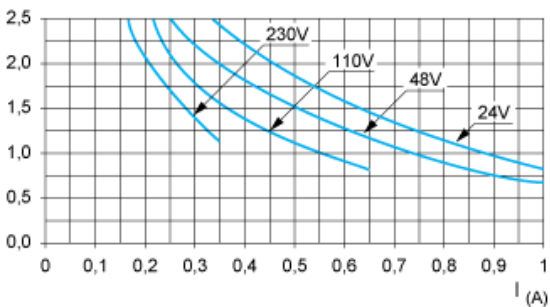
AC Loads

AC12 curves



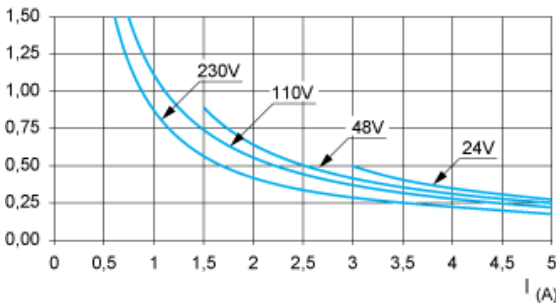
AC12 control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \geq 0.9$.

AC14 curves



AC14 control of small electromagnetic loads ≤ 72 VA, make: $\cos \phi = 0.3$, break: $\cos \phi = 0.3$.

AC15 curves



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