

# Product data sheet

Specifications

## plug-in electromechanical relay - 10 mm - 24 V DC - 1 NO



ABR7S21

### Main

Range of product	Advantys Telefast ABE7
Product or component type	Plug-in electromechanical relay
Control circuit type	DC
Minimum ordered quantity	Set of 4

### Complementary

Width pitch dimension	10 mm
Product compatibility	ABE7P16T212 ABE7P16T214 ABE7P16T210 ABE7P16T230E ABE7R16T210 ABE7R16T212 ABE7P16T215 ABE7P16T230
[Uc] control circuit voltage	24 V
[Ith] conventional free air thermal current	5 A
Contacts type and composition	1 NO
Threshold tripping voltage	19.7 V at 40 °C
Drop-out voltage	2.4 V at 20 °C
Drop-out current	1 mA at 20 °C
Maximum power dissipation per pole	0.36 W
Associated fuse rating	1 A, fast blow
Maximum switching voltage	130 V DC conforming to IEC 60947-5-1 250 V AC 50/60 Hz conforming to IEC 60947-5-1
Electrical durability	500000 cycles, maximum switching current: 1500 mA at 230 V AC-12 500000 cycles, maximum switching current: 1500 mA at 24 V DC-12 500000 cycles, maximum switching current: 600 mA at 24 V DC-13 10 ms 500000 cycles, maximum switching current: 900 mA at 230 V AC-15
Minimum switching current	10 mA at $\geq 5$ V
Electrical reliability	1e-008
Operating rate in Hz	10 Hz no load 0.5 Hz at Ie
Mechanical durability	20000000 cycles

<b>[Uimp] rated impulse withstand voltage</b>	2.5 kV conforming to IEC 60947-1
<b>Width</b>	10 mm
<b>Product weight</b>	0.008 kg

## Environment

<b>Max immunity to microbreaks</b>	5 ms
<b>Dielectric strength</b>	2000 V conforming to IEC 60947-1

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3.5 cm
<b>Package 1 Width</b>	4.2 cm
<b>Package 1 Length</b>	4.5 cm
<b>Package 1 Weight</b>	7 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	4
<b>Package 2 Height</b>	3.5 cm
<b>Package 2 Width</b>	4.2 cm
<b>Package 2 Length</b>	4.5 cm
<b>Package 2 Weight</b>	35 g
<b>Unit Type of Package 3</b>	S01
<b>Number of Units in Package 3</b>	288
<b>Package 3 Height</b>	15 cm
<b>Package 3 Width</b>	15 cm
<b>Package 3 Length</b>	40 cm
<b>Package 3 Weight</b>	2.761 kg

## Offer Sustainability

<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>PVC free</b>	Yes
<b>California proposition 65</b>	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

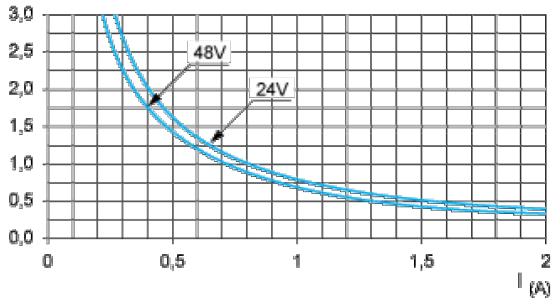
## Contractual warranty

<b>Warranty</b>	18 months
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**Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1**

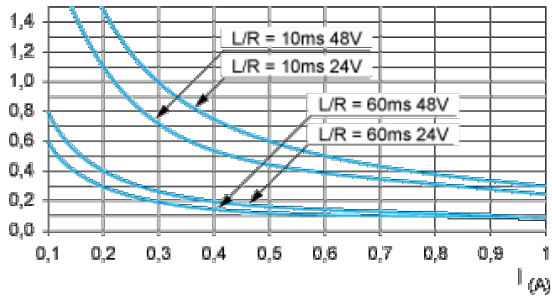
**DC Loads**

DC12 curves



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

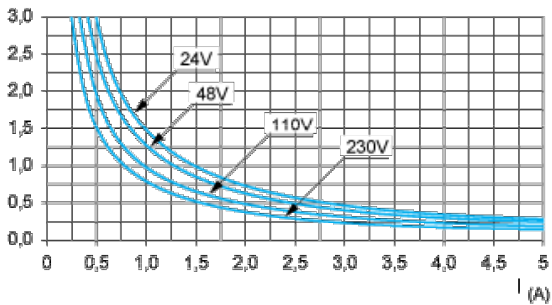
DC13 curves



**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).

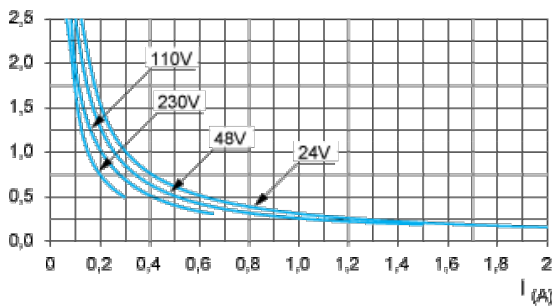
**AC Loads**

AC12 curves



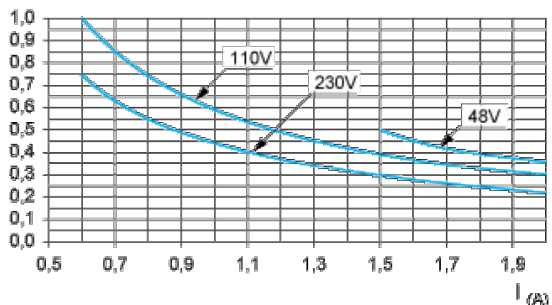
**AC12** control of resistive loads and of solid state loads isolated by optocoupler,  $\cos \phi \geq 0.9$ .

AC14 curves



**AC14** control of small electromagnetic loads  $\leq 72$  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:  $\cos \phi = 0.4$ .

**Recommended replacement(s)**