

# Product data sheet

Specifications



## plug-in electromechanical relay - 12.5 mm - 24 V DC - 1 CO

ABR7S33

### 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	12 mm
Product compatibility	ABE7P08T330E ABE7R16T332 ABE7P16T334 ABE7P16T318E ABE7P16T318 ABE7P16T332 ABE7P16T330 ABE7R16T330 ABE7P16T330E ABE7P08T330
[Uc] control circuit voltage	24 V
[Ith] conventional free air thermal current	10 A
Contacts type and composition	1 C/O
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, fast blow
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 $\geq 5$ V
electrical reliability	1e-008
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

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

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Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	1.2 cm
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Package 1 Width	2.8 cm
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Package 1 Length	4 cm
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Package 1 Weight	20 g
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Unit Type of Package 2	BB1
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Number of Units in Package 2	4
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Package 2 Height	3.5 cm
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Package 2 Width	6 cm
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Package 2 Length	4.5 cm
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Package 2 Weight	84 g
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Unit Type of Package 3	S01
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Number of Units in Package 3	288
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Package 3 Height	15 cm
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Package 3 Width	15 cm
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Package 3 Length	40 cm
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Package 3 Weight	6.232 kg
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## Contractual warranty

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Warranty	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

 <b>Materials and Substances</b>	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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>
PVC free	Yes

### Use Again

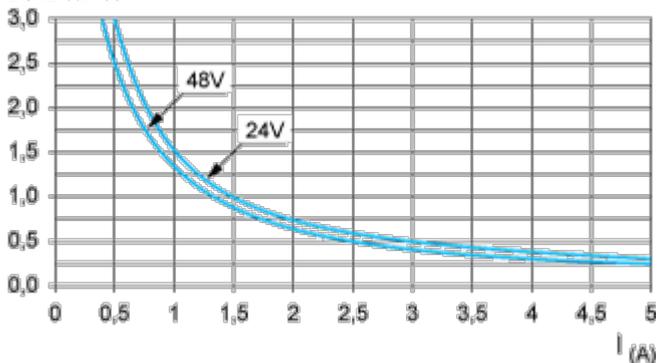
 <b>Repack and remanufacture</b>	
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Performance Curves

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

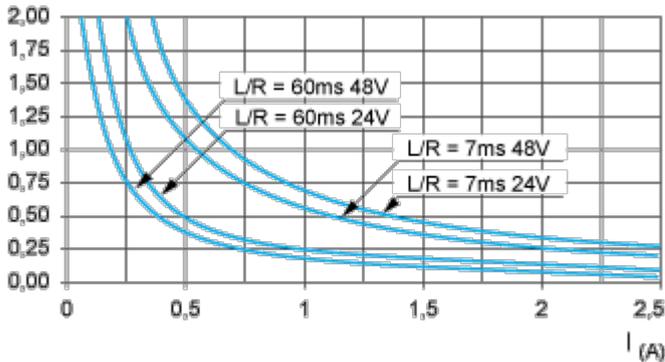
**DC Loads**

DC12 curves



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

DC13 curves

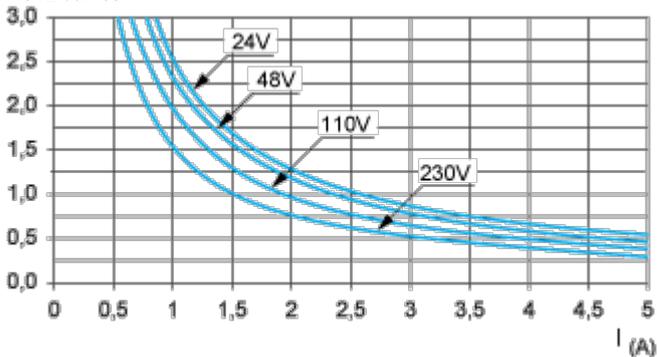


**DC13**

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)

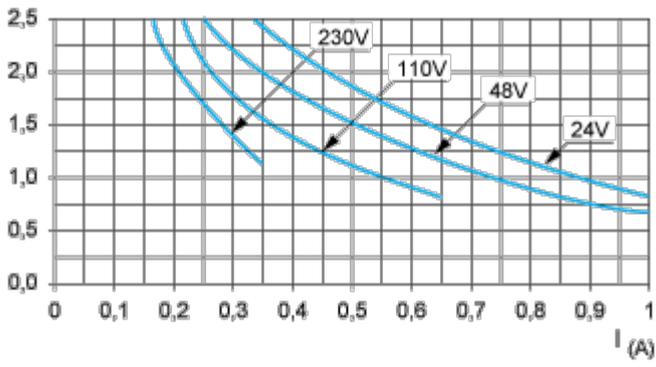
**AC Loads**

AC12 curves

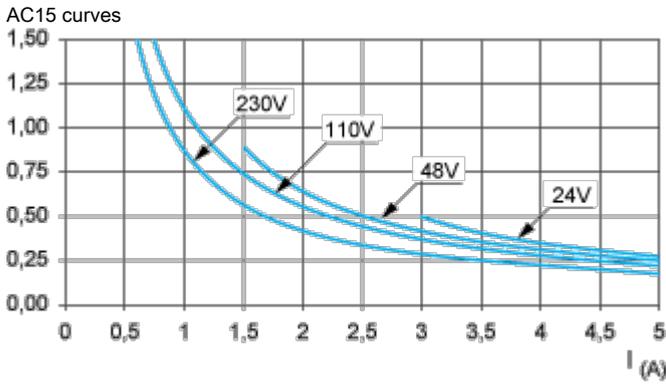


AC12 control of resistive loads and of solid state loads isolated by optocoupler,  $\cos \phi \geq 0.9$ .

AC14 curves



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



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

Image of product / Alternate images

Alternative

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