Product data sheet

Specifications



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

ABR7S33

Product availability: Stock - Normally stocked in distribution facility

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	0.5 in (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 104 °F (40 °C)
Drop-out voltage	3.6 V 68 °F (20 °C)
Drop-out current	3.5 mA 68 °F (20 °C)
Maximum power dissipation per pole	0.6 W
Associated fuse rating	1 A, fast blow
Maximum switching voltage	130 V DC IEC 60947-5-1 264 V AC 50/60 Hz IEC 60947-5-1
Electrical durability	500000 cycles 1400 mA 24 V DC-13 10 ms 500000 cycles 1700 mA 230 V AC-15 500000 cycles 3000 mA 230 V AC-12 500000 cycles 3000 mA 24 V DC-12
Minimum switching current	100 mA >= 5 V
electrical reliability	1e-008
Operating rate in Hz	5 Hz no load 0.5 Hz at Ie
Mechanical durability	20000000 cycles
[Uimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
Net Weight	0.037 lb(US) (0.017 kg)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Environment

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

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3389110720747
Returnability	Yes
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.5 in (1.2 cm)
Package 1 Width	1.1 in (2.8 cm)
Package 1 Length	1.6 in (4 cm)
Package weight(Lbs)	0.7 oz (20 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	4
Package 2 Height	1.4 in (3.5 cm)
Package 2 Width	2.4 in (6 cm)
Package 2 Length	1.8 in (4.5 cm)
Package 2 Weight	3.0 oz (84 g)
Unit Type of Package 3	S01
Number of Units in Package 3	288
Package 3 Height	5.9 in (15 cm)
Package 3 Width	5.9 in (15 cm)
Package 3 Length	15.7 in (40 cm)
Package 3 Weight	13.739 lb(US) (6.232 kg)

Contractual warranty

Warranty (in months)	18

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

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
EU RoHS Directive	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**
California proposition 65	**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 www.P65Warnings.ca.gov**
PVC free	**Yes**

Use Again

Repack and remanufacture

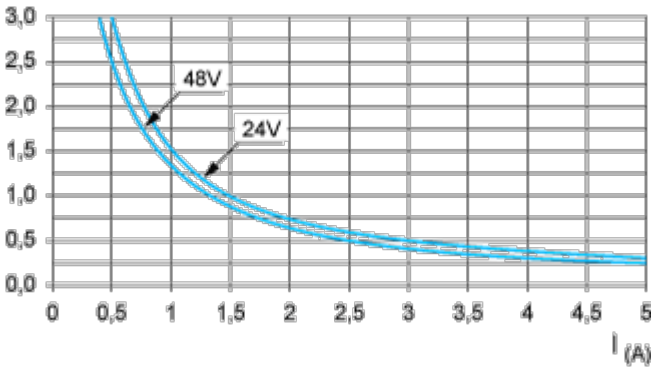
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Performance Curves

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

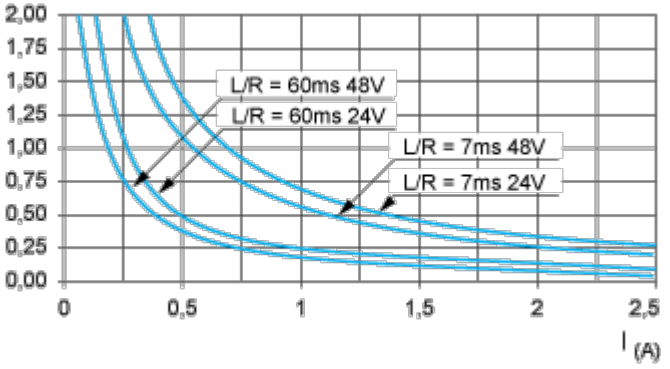
DC Loads

DC12 curves



DC12 control of resistive loads and of solid state loads isolated by optocoupler, l/R ≤ 1 ms.

DC13 curves

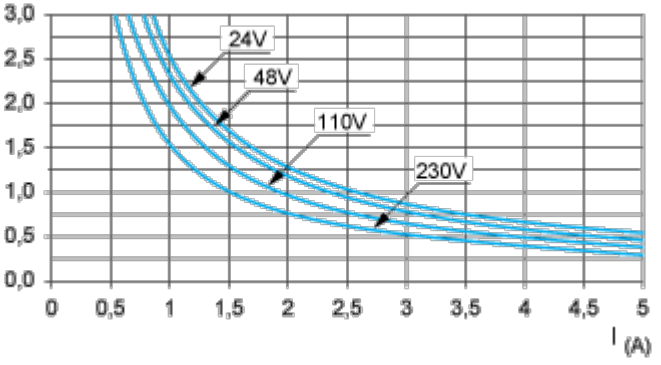


DC13

Switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: 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)

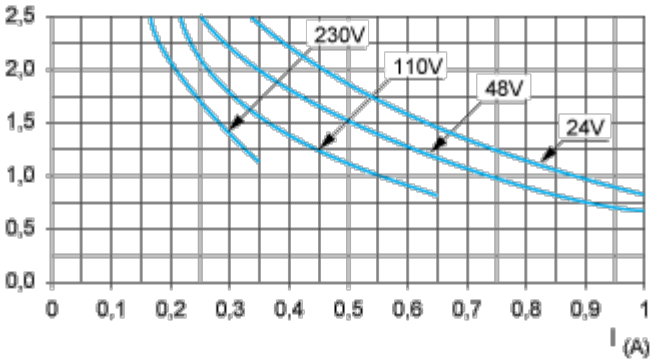
AC Loads

AC12 curves



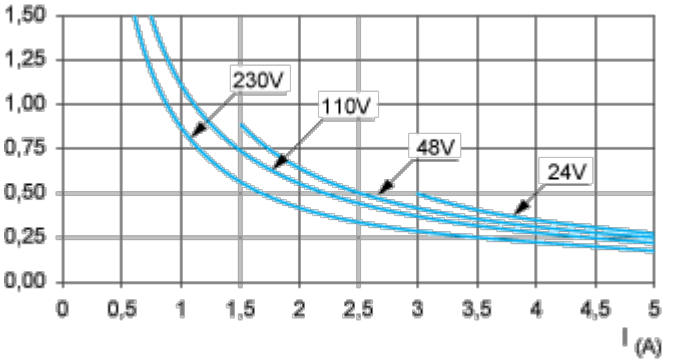
AC12 control of resistive loads and of solid state loads isolated by optocoupler, cos ϕ ≥ 0.9.

AC14 curves



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

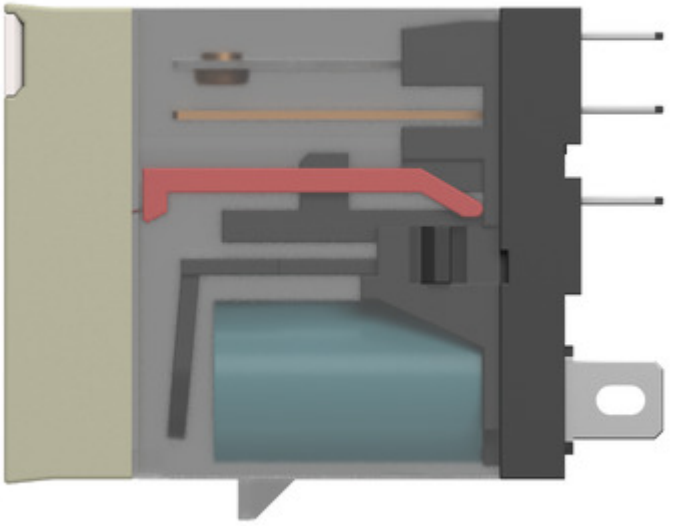
AC15 curves

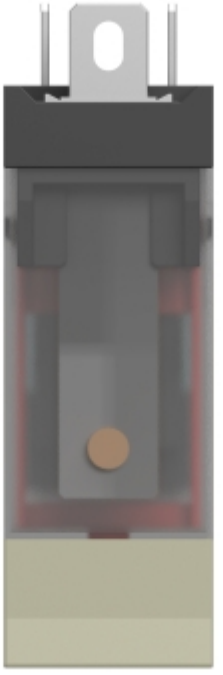


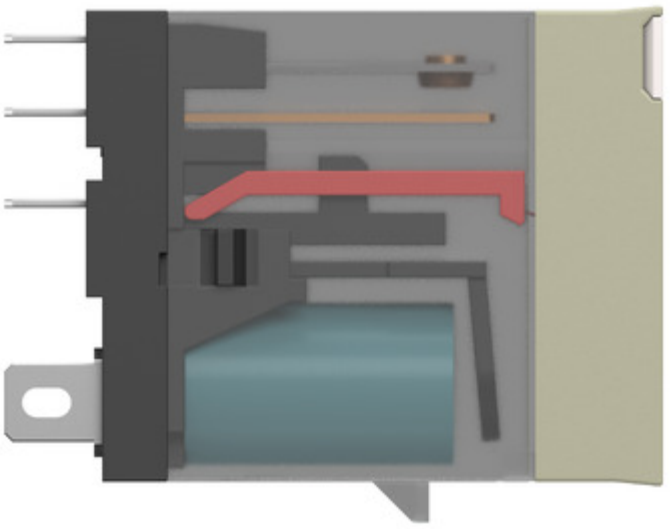
AC15 control of electromagnetic loads > 72 VA, make: cos ϕ = 0.7, break: cos ϕ = 0.4.

Image of product / Alternate images

Alternative








OMRON
24 V DC




3
4
2
1
5