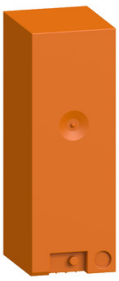
Product data sheet

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 >= 5 V
Electrical reliability	1e-008
Operating rate in Hz	10 Hz no load 0.5 Hz at Ie
Mechanical durability	20000000 cycles
[Uimp] rated impulse withstand voltage	2.5 kV conforming to IEC 60947-1
Width	10 mm
net weight	0.008 kg

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 conforming to IEC 60947-1

Packing Units

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

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

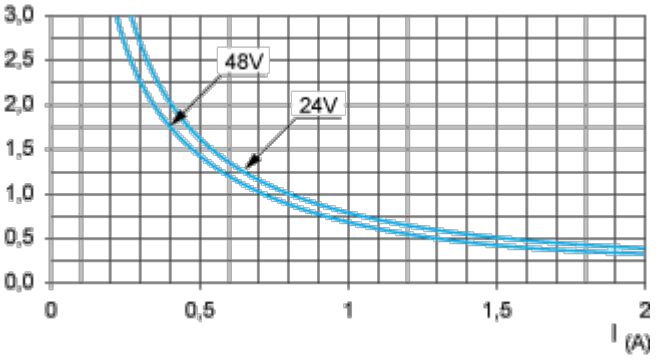
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Performance Curves

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

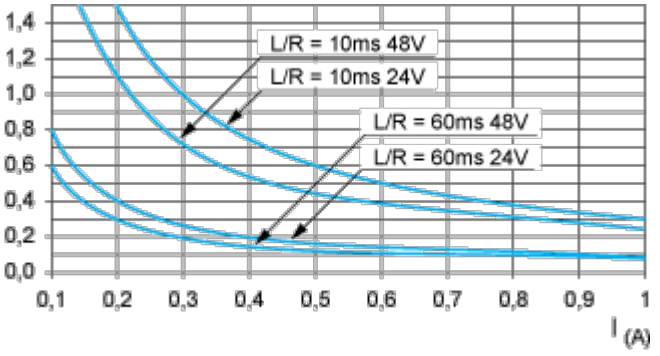
DC Loads

DC12 curves



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

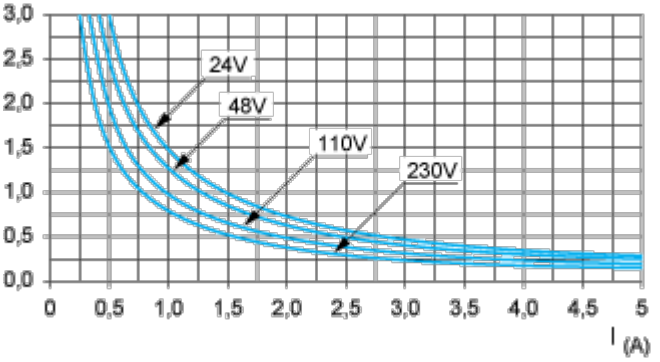
DC13 curves



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)

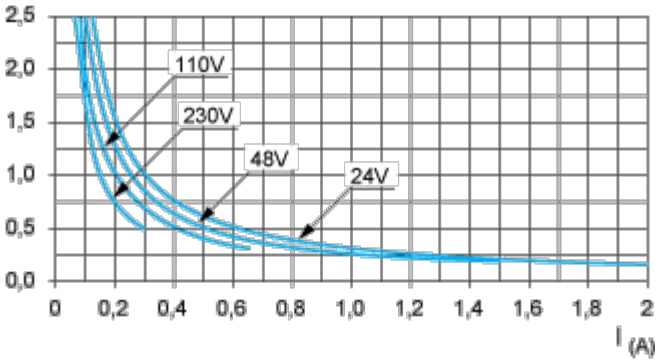
AC Loads

AC12 curves



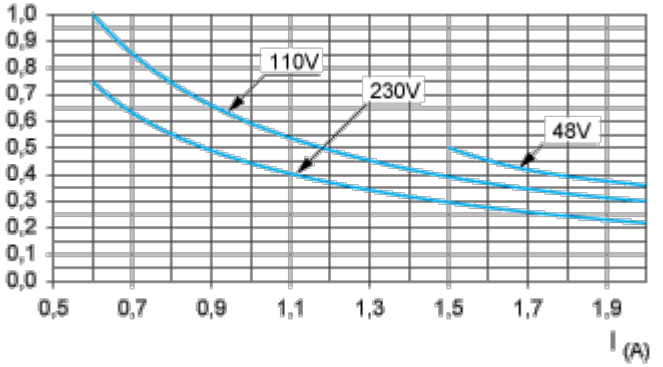
AC12 control of resistive loads and of solid state loads isolated by optocoupler, cos ϕ ≥ 0.9.

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.