Product data sheet
Characteristics

ABR7S33

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

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	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 >= 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	IEC 60947-1 2.5 kV
Net weight	0.017 kg

Environment

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

Packing Units

Package 1 Weight	0.020 kg
Package 1 Height	0.120 dm
Package 1 width	0.280 dm
Package 1 Length	0.400 dm

Offer Sustainability

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
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

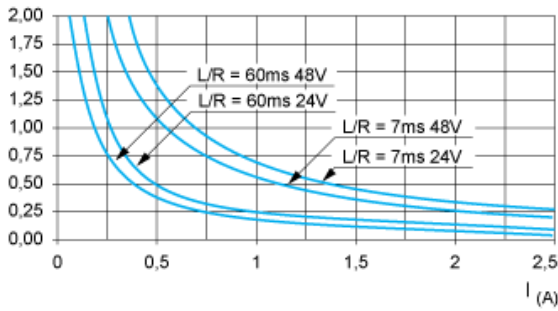## Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

DC Loads

DC12 curves

DC12 control of resistive loads and of solid state loads isolated by optocoupler, l/R ≤ 1 ms.
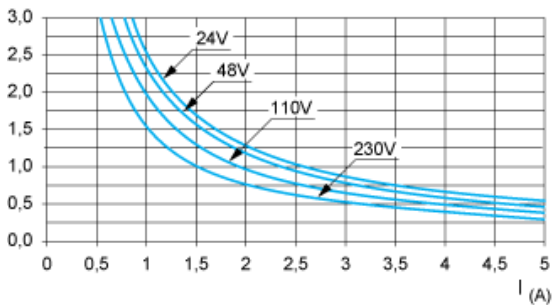
DC13 curves

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)
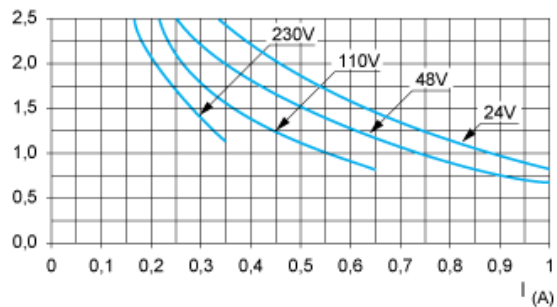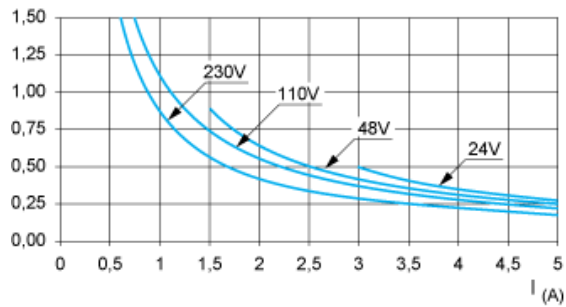
AC Loads

AC12 curves

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

AC14 curves

AC14control of small electromagnetic loads ≤ 72 VA, make: cos φ = 0.3, break: cos φ = 0.3.

AC15 curves

AC15control of electromagnetic loads > 72 VA, make: cos φ = 0.7, break: cos φ = 0.4.

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