

# Product data sheet

## Characteristics

### ABR7S37

plug-in electromechanical relay - 12.5 mm - 24 V DC - 2 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	0.47 in (12 mm)
Product compatibility	ABE7R16T370
[Uc] control circuit voltage	24 V
[Ith] conventional free air thermal current	8 A
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 1000 mA 24 V DC-13 10 ms 500000 Cycles 1300 mA 230 V AC-15 500000 Cycles 2500 mA 230 V AC-12 500000 cycles 2500 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
[Uiimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
Net Weight	0.04 lb(US) (0.017 kg)

#### Environment

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

#### Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901299530
Nbr. of units in pkg.	4
Package weight(Lbs)	0.01 lb(US) (0.00 kg)
Returnability	No
Country of origin	MY

## Packing Units

Package 1 Height	0.300 dm
Package 1 width	0.400 dm
Package 1 Length	0.120 dm

## Offer Sustainability

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

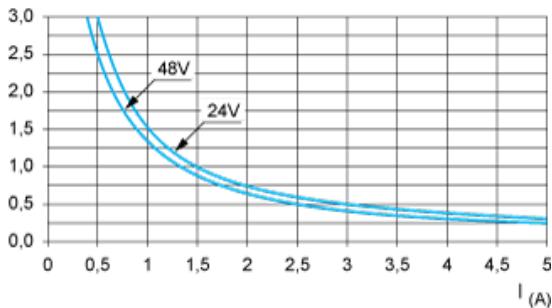
## Contractual warranty

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

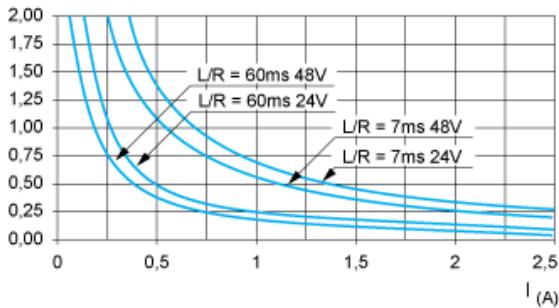
**DC Loads**

DC12 curves



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

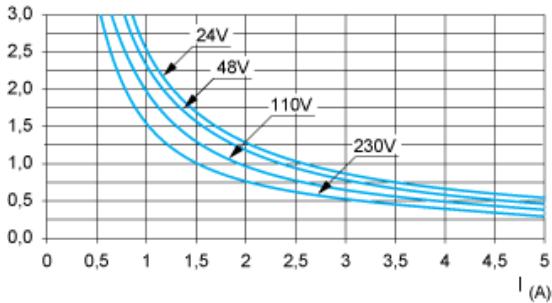
DC13 curves



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, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

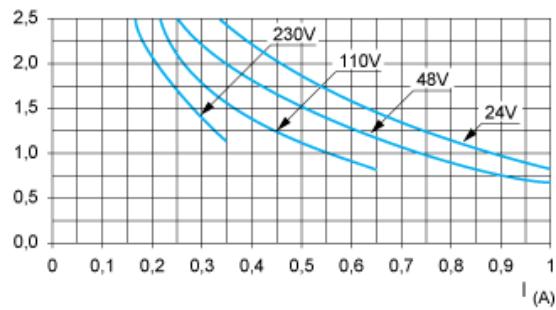
**AC Loads**

AC12 curves



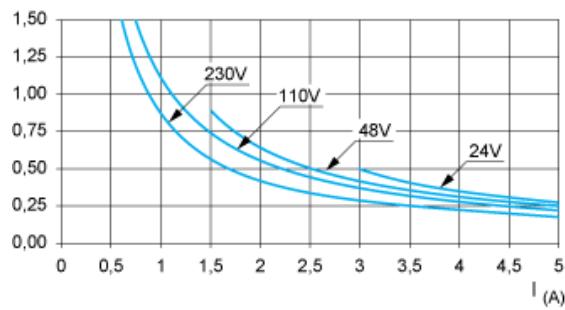
AC12 control of resistive loads and of solid state loads isolated by optocoupler,  $\cos \phi \geq 0.9$ .

AC14 curves



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

AC15 curves



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