



Patent: ZL 2011 2 0054632.8

### Main Feature

1. Small size (28.3x28.3x25.8 in mm) produces a switching capacity up to 40A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1C
3. The Surge Resistance of BAM10 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):  
BAM10 -S: Plastic duct cover..
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.
6. RoHS Compliant.

### Application

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

### Contact Rating

- Nominal Load(Resistive Load Cos  $\phi$  =1)  
Contact Capacity  
BAM10-D.....30A at 14VDC  
BAM10-DM.....40A at 14VDC
- Max. Allowable Current  
BAM10-D.....30A  
BAM10-DM.....40A
- Max. Allowable Voltage  
BAM10-D/DM.....DC14V
- Max. Allowable Power Force  
BAM10-D.....420W  
BAM10-DM.....560W
- Contact Material..... Ag Alloy
- Contact Form..... SPDT&SPST

### Performance (at Initial Value)

- Contact Resistance.....  $\leq 50m\Omega$  at 6VDC/1A
- Operate Time.....10ms. Max
- Release Time..... 5ms. Max
- Dielectric Strength:  
Between Coil & Contact.....750VAC at 50/60 Hz  
for one minute  
Between Contacts.....750VAC at 50/60 Hz  
for one minute
- Surge Resistance.....10,000V (between Coil  
& Contact 1.2x50  $\mu$ s)

- Insulation Resistance.....1,000 Mega  $\Omega$  Min. at  
500VDC
- Max. On/Off Switching:  
Electrical.....30 Ops per minute  
Mechanical.....300 Ops per minute
- Temperature Range..... - 40~85 $^{\circ}$ C
- Humidity Range.....45~85% RH
- Coil Temperature Rise..... 35 $^{\circ}$ C Maximum
- Vibration:  
Endurance.....10 to 55 Hz dual  
amplitude width 1.5mm  
Error Operation.....10 to 55 Hz dual  
amplitude width 1.5mm
- Shock:  
Endurance..... 981m/s<sup>2</sup> Min  
Error Operation..... 98.1m/s<sup>2</sup> Min
- Life Expectancy:  
Electrical.....10<sup>5</sup> Operations at  
Rated Resistive  
load  
Mechanical.....10<sup>7</sup> Operations at  
No load condition
- Weight.....about 42g

### Safety Standard & Its File Number

Pending

### Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
BAM10-D/DM	12	133	90	Abt. 1.6	75% Maximum	10% Minimum	130%
	24	75	320	Abt. 1.8	75% Maximum	10% Minimum	130%

### Ordering Information

<b>BAM10</b>	<b>-</b>	<b>S</b>	<b>-</b>	<b>1</b>	<b>12</b>	<b>D</b>	<b>M</b>	<b>Contact Form: Nil:One form C M:One form A B:One form B</b>
								<b>Coil Type: D:Standard DC Coil</b>
								<b>Coil Voltage:12:12V,24:24V.</b>
								<b>Number of Pole: 1:One Pole</b>
								<b>Type of Sealing: SS:Plastic duct cover</b>
								<b>Type: BAM10</b>

### Classificatio

Model	BAM10	
Coil Sensitivity	Standard DC Coil	
	1A	1C
Flow Solder Type	BAM10 -S-1□□DM	BAM10 -S-1□□D

### Dimension

