



Patent: ZL 2011 2 0054632.8

Main Feature

1. Small size (28.3x28.3x25.5 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 μs)

- Insulation Resistance.....1,000 Mega Ω 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/s² Min
Error Operation..... 98.1m/s² Min
- Life Expectancy:
Electrical.....10⁵ Operations at
Rated Resistive
load
Mechanical.....10⁷ Operations at
No load condition
- Weight.....about 42g

Coil Specification (at 20 °C)

| Coil Sensitivity | Nominal Voltage (VDC) | Nominal Current (mA) | Coil Resistance ($\Omega \pm 8\%$) | Power Consumption (W) | Pull-In Voltage (VDC) | Drop-Out Voltage (VDC) | Maximum Allowable Voltage (VDC) |
|------------------|-----------------------|----------------------|--------------------------------------|-----------------------|-----------------------|------------------------|---------------------------------|
| BAM10-D/DM | 3 | 200 | 6 | Abt. 1.6 | 75% Maximum | 10% Minimum | 130% |
| | 5 | 119 | 16 | | | | |
| | 6 | 100 | 23 | | | | |
| | 9 | 66.7 | 51 | | | | |
| | 12 | 50 | 90 | | | | |
| | 24 | 25 | 360 | | | | |
| | 48 | 12.5 | 1440 | | | | |

Ordering Information

BAM10 - SS - 1 12 D M

Contact Form: Nil:One form C
M:One form A
B:One form B

Coil Type: D:Standard DC Coil

Coil Voltage: 03:3V, 05:5V, 06:6V, 09:9V
12:12V, 24:24V, 48:48V

Number of Pole: 1:One Pole

Type of Sealing: SS:Plastic duct cover

Type: BAM10

Classification

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

Dimension

