



Patent: ZL 201120054292.9

ISO9001、ISO14001 Certification Enterprises Main Feature

1. Small size (27.7x23x29.3in mm) produces a switching capacity up to 30A for high density P.C.Board mounting technique.
2. The contact form construction is 1A
3. The Surge Resistance of BAL10 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
BAL10 -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 ϕ =1)
Contact Capacity
BAL10-LM/DM.....30A at 14VDC
15A at 28VDC
- Max. Allowable Current
BAL10-LM/DM.....30A
- Max. Allowable Voltage
BAL10- LM/DM..... DC28V
- Max. Allowable Power Force
BAL10-LM/DM.....420W
- Contact Material..... Ag Alloy
- Contact Form.....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.....700VAC at 50/60 Hz
for one minute
Between Contacts.....700VAC at 50/60 Hz
for one minute
- Surge Resistance.....10,000V (between Coil
& Contact 1.2x50 μ s)

- 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 35g

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)
BAL10- LM	5	294	17	Abt. 1.44	75% Maximum	10% Minimum	130%
	6	240	25				
	9	160.7	56				
	12	120	100				
	24	60	400				
	48	30	1600				
BAL10- DM	5	357	14	Abt. 1.8	75% Maximum	10% Minimum	130%
	6	300	20				
	9	200	45				
	12	150	80				
	24	75	320				
	48	37.5	1480				

Ordering Information

BAL10 - SS - 1 12 D M

Contact Form: M:One form A

Coil Type: D:Standard DC Coil
L:High Sensitivity DC Coil

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

Number of Pole: 1:One Pole

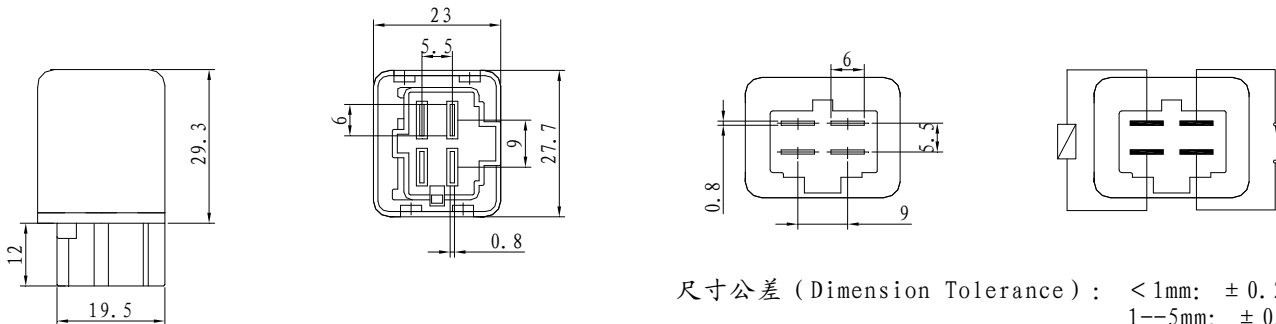
Type of Sealing: SS:Plastic duct cover.

Type: BAL10

Classification

Model	BAL10	
Coil Sensitivity	1A	
	Standard DC Coil	High Sensitivity DC Coil
Flow Solder Type	BAL10 -S-1□□DM	BAL10 -S-1□□LM

Dimension



尺寸公差 (Dimension Tolerance) : < 1mm: $\pm 0.2\text{mm}$
1--5mm: $\pm 0.3\text{mm}$
> 5mm: $\pm 0.5\text{mm}$