



Patent: ZL 2010 2 0563196.2



### Main Feature

1. Small size (29x12.7x15.5 in mm) produces a switching capacity up to 16A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of BRT3 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):  
BRT3-SS: Plastic Sealed Type.
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  
BRT3-L/D/LM/DM.....16A at 250VAC
- Max. Allowable Current  
BRT3-L/D/LM/DM.....16A
- Max. Allowable Voltage  
BRT3-L/D/LM/DM.....AC250V
- Max. Allowable Power Force  
BRT3-L/D/LM/DM.....4,000VA
- 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.....5,000VAC at 50/60 Hz  
for one minute  
Between Contacts.....1,000VAC 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°C
- Humidity Range.....5%~85% RH
- Coil Temperature Rise..... 35°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 13g

### Safety Standard & Its File Number

- UL.....E333244
- TUV.....R50209295
- CQC.....CQC10002042508

## 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)
BRT3-D BRT3-DM	5	80.6	62	Abt. 0.4	75% Maximum	10% Minimum	130%
	6	66.7	90				
	9	44.6	202				
	12	33.3	360				
	24	16.7	1440				
	48	8.7	5520				
BRT3-L BRT3-LM	5	50	100	Abt. 0.25	75% Maximum	10% Minimum	130%
	6	41.7	144				
	9	27.7	325				
	12	20.8	576				
	24	10.4	2304				
	48	5.2	9216				

## Ordering Information

<b>BRT3</b>	-	<b>SS</b>	-	<b>1</b>	<b>12</b>	<b>D</b>	<b>M</b>	
								<b>Contact Form:</b> Nil:One form C M:One form A B:One form B
								<b>Coil Type:</b> D: Standard DC Coil L: High Sensitivity DC Coil
								<b>Coil Voltage:</b> 03:3V, 05:5V,06:6V,09:9V 12:12V,24:24V,48:48V
								<b>Number of Pole:</b> 1:One Pole
								<b>Type of Sealing:</b> SS:Plastic Sealed Type
								<b>Type:</b> BRT3

## Classificatio

Model	BRT3			
Coil Sensitivity	Standard DC Coil		High Sensitivity DC Coil	
	1C	1A	1C	1A
Plastic Sealed Type	BRT3-SS-1□□D	BRT3-SS-1□□DM	BRT3-SS-1□□L	BRT3-SS-1□□LM

## Dimension

