



## 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: Flow Solder Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.

## 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.....100 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.....45~85% 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				

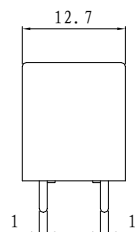
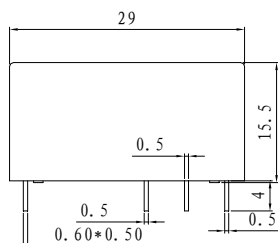
## Ordering Information

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

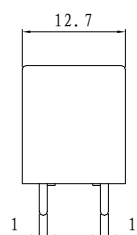
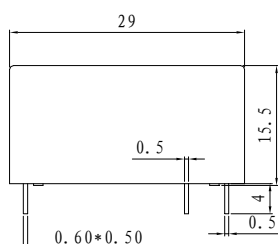
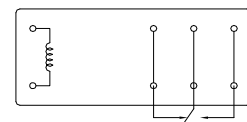
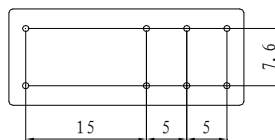
## Classification

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



BRT3-SS-D/L



BRT3-SS-DM/LM

