



Patent: ZL 2010 2 0625659.3



## ISO9001、ISO14001 Certification Enterprises

### Main Feature

1. Small size (18.6x15.3x10.4 in mm) produces a switching capacity up to 10A for high density P.C.Board mounting technique.
2. The contact form construction is 1A
3. The Surge Resistance of BPC series is 10,000V
4. Sealing Construction (Free from dust and solder flux): BPC-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  
BPC-DM.....10A at 250VAC
- Max. Allowable Current  
BPC-DM.....10A
- Max. Allowable Voltage  
BPC-DM.....AC250V
- Max. Allowable Power Force  
BPC-DM.....2,500VA
- 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.....2,800VAC 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 7g

### Safety Standard & Its File Number

- TUV.....Pending

## 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)
BPC-DM	3	150.0	20	Abt. 0.45	75% Maximum	10% Minimum	130%
	5	90.00	55				
	6	75.00	80				
	9	50.00	180				
	12	37.50	320				
	24	18.75	1280				
	48	9.37	5120				

## Ordering Information

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

## Classification

Model	<b>BPC</b>
Coil Sensitivity	Standard DC Coil 1A
Plastic Sealed Type	BPC-SS-1□□DM

## Dimension

