



Patent: ZL 2010 2 0625659.3



Main Feature

1. Small size (18.4x15.2x10.2 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 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.....5%~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 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

BPC	-	SS	-	1	12	D	M	
								Contact Form: M:One form A
								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 Sealed Type
								Type: BPC

Classification

Model	BPC
Coil Sensitivity	Standard DC Coil 1A
Plastic Sealed Type	BPC-SS-1□□DM

Dimension

