



### Main Feature

1. Small size (30.2x15.7x23.2 in mm) produces a switching capacity up to 20A for high density P.C.Board mounting technique.
2. The contact form construction is 1A
3. The Surge Resistance of BPH series is 10,000V
4. Sealing Construction (Free from dust and solder flux): BPH-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  
BPH-LM/LMP.....20A at 277VAC  
1HP 120VAC  
2HP 240VAC
- Max. Allowable Current  
BPH-LM/LMP.....20A
- Max. Allowable Voltage  
BPH-LM/LMP.....AC277V
- Max. Allowable Power Force  
BPH-LM/LMP.....5,540VA
- 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.....4,500VAC 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 22g

**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)
BPH-LM	5	178.6	28	Abt. 0.9	75% Maximum	10% Minimum	130%
	6	150	40				
	9	100	90				
	12	75	160				
	24	37.5	640				
	48	18.8	2560				

**Ordering Information**

<b>BPH</b>	-	<b>SS</b>	-	<b>1</b>	<b>12</b>	<b>L</b>	<b>M</b>	<b>P</b>	<b>Terminal Type: Blank:Standard Type P:PCB Type</b>
									<b>Contact Form: M:One form A</b>
									<b>Coil Type: L: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: BPH</b>

**Classificatio**

Model	<b>BPH</b>	
Coil Sensitivity	Standard DC Coil	
	1A	
Plastic Sealed Type	BPH -SS-1□□LM	BPH -SS-1□□LMP

**Dimension**
