



Patent: ZL 2010 2 0625647.0



ISO9001、ISO14001 Certification Enterprises Main Feature

1. Small size (30.5x16x23.5 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.

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..... $\leq 50\text{m}\Omega$ 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 μs)
- Insulation Resistance.....1,000 Mega Ω Min. at
500VDC

Application

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

- 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/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 22g

Safety Standard & Its File Number

- UL.....E333244
- CQC.....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)
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

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

Classification

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

Dimension

