



Main Feature

1. Small size (29.2x12.8x20.4 in mm) produces a switching capacity up to 10A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of BPM1 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
BPM1-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
BPM1-L/LM.....10A at 250VAC
10A at 30VDC
- Max. Allowable Current
BPM1-L/LM.....10A
- Max. Allowable Voltage
BPM1-L/LM..... AC250V DC30V
- Max. Allowable Power Force
BPM1-L/LM.....2,500VA 300W
- 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 μs)
- 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 13g

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) |
|-------------------|-----------------------|----------------------|--------------------------------------|-----------------------|-----------------------|------------------------|---------------------------------|
| BPM1-L BPM1-LM | 3 | 176.5 | 17 | Abt. 0.54 | 75% Maximum | 10% Minimum | 130% |
| | 5 | 108.7 | 46 | | | | |
| | 6 | 89.6 | 67 | | | | |
| | 9 | 60 | 150 | | | | |
| | 12 | 44.4 | 270 | | | | |
| | 24 | 21.8 | 1100 | | | | |
| | 48 | 11.2 | 4270 | | | | |

Ordering Information

| | | | | | | | | |
|-------------|---|-----------|---|----------|-----------|----------|----------|---|
| BPM1 | - | SS | - | 1 | 12 | L | M | |
| | | | | | | | | Contact Form: Nil:One form C M:One form A B:One form B |
| | | | | | | | | 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: BPM1 |

Classification

| Model | BPM1 | |
|---------------------|------------------|----------------|
| Coil Sensitivity | Standard DC Coil | |
| Plastic Sealed Type | 1C | 1A |
| | BPM1 -SS-1□□L | BPM1 -SS-1□□LM |

Dimension
