



Patent: ZL 2010 2 0563194.3



Main Feature

1. Small size (29.3x12.8x20.4 in mm) produces a switching capacity up to 5A for high density P.C.Board mounting technique.
2. The contact form construction is 2A/2B/2C
3. The Surge Resistance of BPM2 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
BPM2-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
BPM2-L/LM.....5A at 250VAC
5A at 30VDC
- Max. Allowable Current
BPM2-L/LM.....5A
- Max. Allowable Voltage
BPM2-L/LM.....AC250V DC30V
- Max. Allowable Power Force
BPM2-L/LM.....1,250VA 150W
- 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

Safety Standard & Its File Number

- UL.....E332719
- TUV.....R50170592
- CQC.....CQC10001046678

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) |
|-------------------|-----------------------|----------------------|--------------------------------------|-----------------------|-----------------------|------------------------|---------------------------------|
| BPM2-L BPM2-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

BPM2 - SS - 1 12 L M

Contact Form: Nil: Two form C
M: Two form A
B: Two 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: 2: Two Pole

Type of Sealing: SS: Plastic Sealed Type

Type: BPM2

Classification

| Model | BPM2 | |
|---------------------|------------------|----------------|
| Coil Sensitivity | Standard DC Coil | |
| | 2C | 2A |
| Plastic Sealed Type | BPM2 -SS-2□□L | BPM2 -SS-2□□LM |

Dimension

