AFE® Electronic

ISO9001、ISO14001 Certification Enterprises

Patent: ZL 2010 2 0563190.5

Main Feature

1. Small size (19x15.4x15 in mm) produces a switching capacity up to 15A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of BRD series is 3,000V
4. Sealing Construction (Free from dust and solder flux): BRD-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 Φ =1)
  Contact Capacity
  BRD…….. ..12A at 250VAC
  15A at 125VAC
  TV-5(SPST-NO)
- Max. Allowable Current
  BRD……..15A
- Max. Allowable Voltage
  BRD……AC250V
- Max. Allowable Power Force
  BRD……...3,000VA
- Contact Material…… Ag Alloy
- Contact Form…….. SPDT & SPST

Performance (at Initial Value)

- Contact Resistance……≤50mΩ at 6VDC/1A
- Operate Time……..10ms. Max
- Release Time…….. 5ms. Max
- Dielectric Strength:
  Between Coil & Contact…….1,500VAC at 50/60 Hz for one minute
  Between Contacts……..…1,000VAC at 50/60 Hz for one minute
- Surge Resistance……..……3,000V (between Coil & Contact 1.2x50 μs)
- Insulation Resistance……..……1,000 MegaΩ Min. at 500VDC
- Max. On/Off Switching:
  Electrical……..……30 Ops per minute
  Mechanical……..…300 Ops per minute
- Temperature Range…… －40~85℃
- Humidity Range……5%~85% RH
- Coil Temperature Rise…….. 35℃ 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^2 Min
  Error Operation…….…. 98.1m/s^2 Min
- Life Expectancy:
  Electrical……10^5 Operations at Rated Resistive load
  Mechanical……10^7 Operations at No load condition
- Weight……..……about 9g

Safety Standard ＆ Its File Number

- UL……E333244
- TUV……R50183595
- CQC……CQC10002054413

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Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±8%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
BRD-L BRD-LF BRD-LM BRD-LMF	3	120	25	Abt. 0.36	75% Maximum	10% Minimum	130%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
	48	7.5	6,400				

Ordering Information

BRD - SS - 1 12 L M F

Insulation Class: F: Class F **Nil:**Class B

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

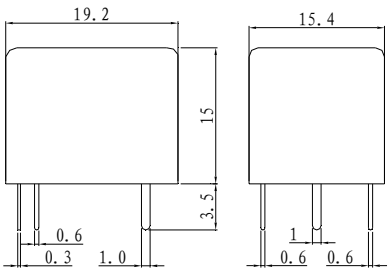
Type of Sealing: SS: Plastic Sealed Type

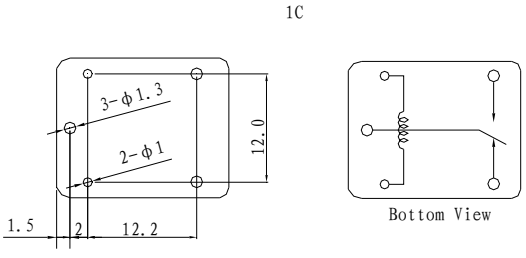
Type: BRD

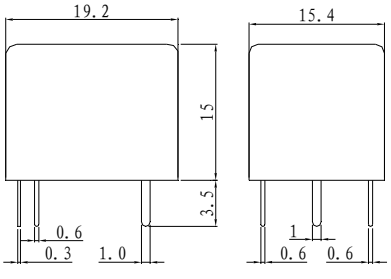
Classification

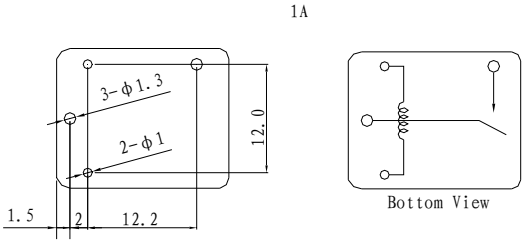
Model	BRD		
Coil Sensitivity	High Sensitivity DC Coil		
	1C	1A	1B
Plastic Sealed Type	BRD -SS-1□□L BRD-SS-1□□LF	BRD-SS-1□□LM BRD-SS-1□□LMF	BRD-SS-1□□LB

Dimension









Dimension Tolerance: ＜1mm: ±0.2mm
1--5mm: ±0.3mm
＞5mm: ±0.5mm