



Patent: ZL 2010 2 0625647.0



Contact Rating

- Nominal Load(Resistive Load Cos φ=1)
Contact Capacity
BT92-D.....20A/10A at 250VAC
BT92-DM..... 30A at 250VAC
BT92-DB..... 20A at 250VAC
- Max. Allowable Current
BT92-D..... 20A
BT92-DM..... 30A
BT92-DB..... .20A
- Max. Allowable Voltage
BT92-D/DM/DB.....AC250V
- Max. Allowable Power Force
BT92-D.....5,000VA
BT92-DM/DB.....7,500VA
- 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.....2,500VAC at 50/60 Hz
for one minute
Between Contacts.....1,500VAC at 50/60 Hz
for one minute
- Surge Resistance.....10,000V (between Coil
& Contact 1.2x50 μ s)

Main Feature

1. Small size (32x27.2x19.8 in mm) produces a switching capacity up to 30A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of BT92 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
BT92-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

- 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°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 30g

Safety Standard & Its File Number

- UL.....E333244
- CQC.....CQC11002061851

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) |
|------------------|-----------------------|----------------------|--------------------------------------|-----------------------|-----------------------|------------------------|---------------------------------|
| BT92-D/DM/DB | 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

BT92 - SS - 1 12 D M

Contact Form: Nil:One form C
M:One form A
B:One form B

Coil Type: D: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: BT92

Classification

| Model | BT92 | | |
|---------------------|------------------|----------------|---------------|
| Coil Sensitivity | Standard DC Coil | | |
| | 1A | 1B | 1C |
| Plastic Sealed Type | BT92 -SS-1□□DM | BT92 -SS-1□□DB | BT92 -SS-1□□D |

Dimension

