



Contact Rating

- Nominal Load(Resistive Load Cos $\phi = 1$)
Contact Capacity
BT90- D.....20A at 250VAC
BT90-DM/DB.....30A at 250VAC
- Max. Allowable Current
BT90-D.....20A
BT90-DM/DB.....30A
- Max. Allowable Voltage
BT90-D/DM/DB.....AC250V
- Max. Allowable Power Force
BT90-D.....5,000VA
BT90-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 μs)

Main Feature

1. Small size (31.9x27.5x19.5 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 BT90 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
BT90-SS: Flow Solder Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.

Application

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

- Insulation Resistance.....100 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.....45~85% 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 23g

Safety Standard & Its File Number

- UL.....E333244
- TUV.....R50169810
- CQC.....申请中

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)
BT90-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

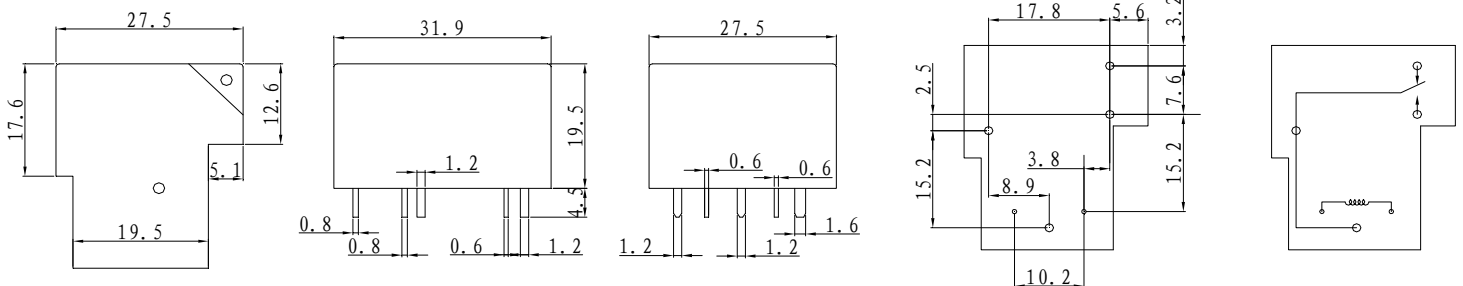
BT90 - SS - 1 12 D M		
	Contact Form:	Nil: One form C M: One form A B: One form B
	Coil Type:	D: Standard DC Coil
	Coil Voltage:	05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V,
	Number of Pole:	1: One Pole
	Type of Sealing:	SS: How Solder Type
	Type:	BT90

Classification

Model	BT90		
Coil Sensitivity	Standard DC Coil		
	1A	1B	1C
Flow Solder Type	BT90-SS-1□□DM	BT90-SS-1□□DB	BT90-SS-1□□D

Dimension

BT90-SS-1XXD



BT90-SS-1XXDM

