



Main Feature

1. Small size (21x16x20.8in mm) produces a switching capacity up to 20A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of BRF series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
BRF-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
BRF-D.....17A at 250VAC
BRF-DM/DB.....17A at 250VAC
20A at 125VAC
- Max. Allowable Current
BRF-D.....17A
BRF-DM/DB.....20A
- Max. Allowable Voltage
BRF-D.....AC250V
BRF-DM/DB.....AC250V
- Max. Allowable Power Force
BRF-D.....4250VA
BRF-DM/DB.....4250VA
- Contact Material.....Ag Alloy
- Contact Form.....SPST&SPDT

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.....2,800VAC 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°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 14g

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)
BRF-D/DM/DB	3	120	25	Abt. 0.36	75% Maximum	10% Minimum	130%
	5	72	69.4				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1600				
	48	7.5	6400				

Ordering Information

BRF	-	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: BRF

Classification

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

Dimension

