

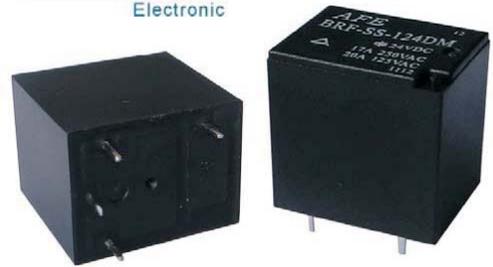
## Power Relay

BRF3-SS-124DM

### Main Feature

1. Small size (21x16x20.5in 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: Flow Solder Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.

**AFE**<sup>®</sup>  
Electronic



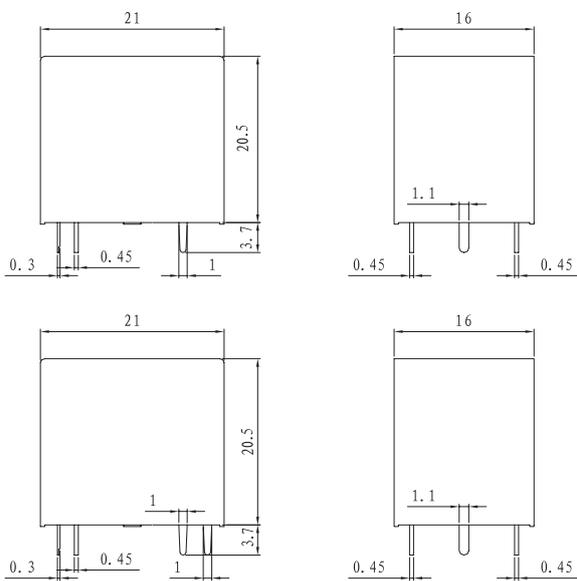
Patent: ZL 2010 2 0563191.X

### Application

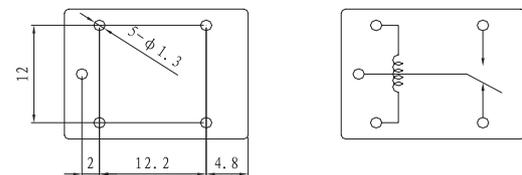
Air Conditioning, Fridge, Washing Machine, etc Household Appliances



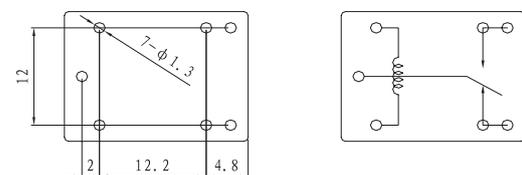
### Dimension



### Single row derivation feet

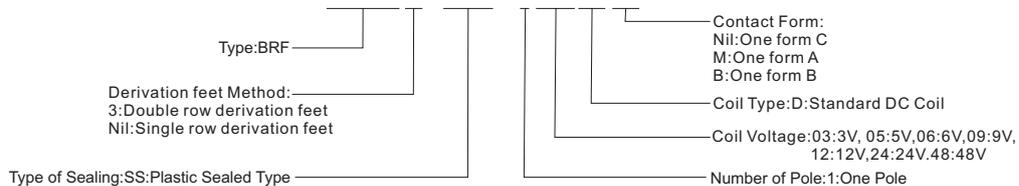


### Double row derivation feet



## ORDER INFORMATION

Product NO.: BRF3-SS-124DM





**Power Relay**

**BRF3-SS-124DM**

**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.2,500VAC at 50/60 Hz  
for one minute  
Between Contacts... 1000VAC at 50/60 Hz  
for one minute
- Surge Resistance ..10,000V (between Coil  
& Contact 1.2x50  $\mu s$ )

- Insulation Resistance...500 Mega  $\Omega$  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/s<sup>2</sup> Min  
Error Operation.....98.1m/s<sup>2</sup> Min
- Life Expectancy:  
Electrical.....10<sup>5</sup> Operations at  
Rated Resistive  
load  
Electrical.....10<sup>7</sup> Operations at  
No load condition
- Weight.....about 14g

**Safety Standard & Its File Number**

- UL.....Application
- TUV.....R50208738
- CQC.....Application

**Coil Specification (at 20 °C)**

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega$ %)	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				

**Classificatio**

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