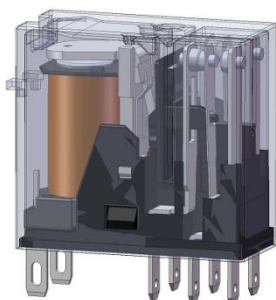


**Figure 1**

For latest prices, please check  
balseal-electric.com

# BRJ Series Electromechanical Relay Selection Guide



BRJ G series relays are general purpose relays designed for a wide range of applications, from power to sequence controls in various factory machines and control panels. They are ideal for electric control panels requiring stable and reliable relays.

## Features

- Small package design
- Large capacity main contact
- 1C/O contact 12A, 2C/O contact 8A
- High dielectric strength
- High reliability and long life
- Ultra-high sensitivity with quick response time (25 ms max.)
- High vibration and shock resistance
- LED indicator on all models, so you can easily see if relay is working properly without using a voltmeter
- Diode protection available on 24 VDC models, which protects contacts and electronic components from back EMF
- CE certified, ROHS approval pending
- 1PDT and DPDT models

• Order socket separately

BRJ Series Selection Guide						
<i>Part Number</i>	<i>Coil Voltage</i>	<i>Configuration</i>	<i>Contact Rating</i>	<i>Dimensions (see page 4-)</i>	<i>Relay Socket Part Number</i>	<i>Dimensions (see page 5)</i>
BRJ-G 1D012L	12VDC	1PDT	12A	Figure 1	SRJ1E	Figure 3
BRJ-G 2D012L		2PDT	8A	Figure2	SRJ2E	Figure 3
BRJ-G 1D024L	24VDC	1PDT	12A	Figure 1	SRJ1E	Figure 3
BRJ-G 2D024L		2PDT	8A	Figure2	SRJ2E	Figure 3
BRJ-G 1A230L	230VAC	1PDT	12A	Figure 1	SRJ1E	Figure 3
BRJ-G 2A230L		2PDT	8A	Figure2	SRJ2E	Figure 3

For latest prices, please check  
[balseal-electric.com](http://balseal-electric.com)

BRJ Series Specification Table								
Part Numbers	BRJ G 1D012L	BRJ G 2D012L	BRJ G 1D024L	BRJ G 2D024L	BRJ G 1A230L	BRJ G 2A230L		
Contact Specifications								
Current Rating(1PDT . 2PDT)	12A.8A							
Contact Type	1PDT				2PDT			
Terminal Type	Spade Plug-In Socket							
RatedMax.Resistive Load	12A/250VAC (1C conversion type)				8A/250VAC (2C conversion type)			
Maximum switching power	3000VA (1C conversion type)				2000VA (2C conversion type)			
Minimum Recommended Load	100mA @ 5VDC							
Max. Switching Cap. (Resistive Load)	1000M Ω （ 500VDC ）							
contact resistance	100m below (DC6V, 1A)							
insulation resistance	1000M Ω （ 500VDC ）							
Max. Contact Rating	12A/250VAC (1C conversion type)				8A/250VAC (2C conversion type)			
Coil Specifications								
Options	LED Indicator/Diode Protection							
	Coil (test environment 23 C)				Coil (frequency 50HZ)			
Rated voltage	( V/DC ) 12	( V/DC ) 24	( V/DC ) 48	( V/DC ) 110	( V/AC ) 24	( V/AC ) 48	( V/AC ) 100/110	( V/AC ) 220/240
Rated current	44.4mA	22mA	11mA	4.8mA	46.5mA	25mA	11.0/13.0 mA	5.0/5.9mA
Power(w)	530mW	530mW	530mW	530mW	1.2~1.4m W	1.2~1.4m W	1.2~1.4m W	1.2~1.4m W
Coil impedance ( Ω )	270±10%	530mW	4350±10%	22830±15 %	265±10%	1060±10%	4600±10%	22260±15 %
Vibration resistance	Maloperation 10-55HZ (double amplitude 1.5mm)				Durable 10-55HZ (double amplitude 1.5mm)			
Impact resistance	Strength 980m/s²				Stability 98m/s²			
General Specifications								
Surge withstand voltage	8000VAC （ 1.2/50μs ）							
Electrical durability	300000 times							
Mechanical durability	10,000,000 times							
contact material	Silver alloy							
Action voltage	80% below (ambient temperature)							
Release voltage	More than 10% (ambient temperature)							
ambient temperature	-40~70 DEG C (work); 20~85%RH							

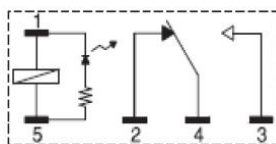
# BRJ Series Wiring Diagrams and Derating Curves

## Wiring Diagrams

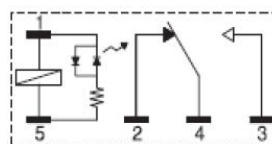
BRJ1D024L

BRJ2D024L

### 1 groups of transfer inserts

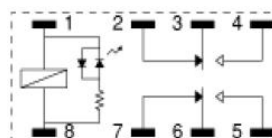
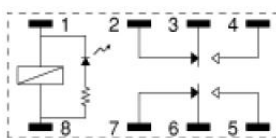


With LED light (type AC)



With LED light (type DC)

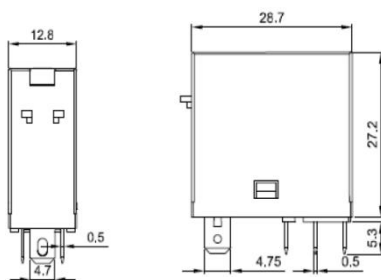
### 2 groups of transfer inserts



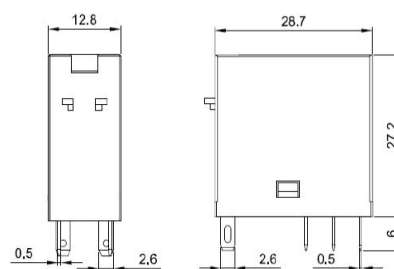
# BRJ Series Dimensional Drawings

BRJ1D024L

BRJ2D024L



1 standard type shell insert type



2 standard type shell insert type