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BRJ Series Electromechanical Relay Selection Guide



BRJ 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 desig
- 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								
Part Number	Coil Voltage	Configuration	Contact Rating	Dimensions (see page 4-)	Relay Socket Part Number	Dimensions (see page 5)		
BRJ1D012l	12VDC	1PDT	12A	Figure 1	SRJ1E	Figure 3		
BRJ2D012l		2PDT	8A	Figure2	SRJ2E	Figure 3		
BRJ1D024l	24VDC	1PDT	12A	Figure 1	SRJ1E	Figure 3		
BRJ2D024l		2PDT	8A	Figure2	SRJ2E	Figure 3		
BRJ1A230l	230VAC	1PDT	12A	Figure 1	SRJ1E	Figure 3		
BR2JA2301		2PDT	8A	Figure2	SRJ2E	Figure 3		

BRJ Series Electromechanical Relay Specifications

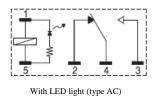
E	RJ Se	ries S _i	pecific	atior	Table					
Part Numbers	BRJ1D012I	BRJ2D012I	פאס וטטבאו		BRJ2D0241	BRJ1A230I		BRJ2A230I		
Contact Specifications										
Current Rating(1PDT . 2PDT)	12A.8A									
Contact Type	1PDT 2PDT									
Terminal Type	Spade Plug-In Socket									
RatedMax.Resistive Load	•									
Maximum switching power	_	3000VA (1C conversion type) 2000VA (2C conversion type)						• • • • • • • • • • • • • • • • • • • •		
Minimum Recommended Load	100mA @ 5VDC									
Max. Switching Cap. (Resistive Load)	1000MΩ (500VDC)									
contact resistance	100m below (DC6V, 1A)									
insulation resistance	1000MΩ (500VDC)									
Max. Contact Rating	12A/250VAC (1C conversion type) 8A/250VAC (2C conversion type)									
		Coil Sp	ecificat	ions						
Options	Options LED Indicator/Diode Protection									
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 $\langle \Omega \rangle$	270±10%	530mW	4350±10%	22830±15 %	265±10%	1060±10%	4600±10%	22260±15		
Vibration resistance	Maloperation 10-55HZ (double amplitude 1.5mm)			Dura	Durable 10-55HZ (double amplitude 1.5mm)					
Impact resistance	Strength 980m/s ² Stability 98m/s ²									
-	(General S	Specificat	ions						
Surge withstand voltage		C (1.2/50	<u> </u>							
Electrical durability	100000 t	imes								
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									

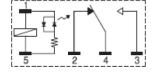
BRJ Series Wiring Diagrams and Derating Curves

Wiring Diagrams

BRJ1D024L BRJ2D024L

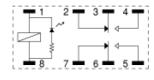
1 groups of transfer inserts



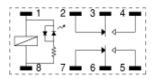


With LED light (type DC)

2 groups of transfer inserts



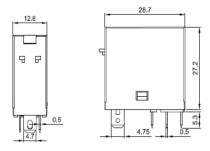
With LED light (type AC)



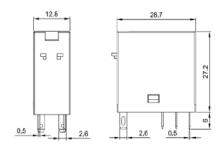
With LED light (type DC)

BRJ Series Dimensional Drawings

BRJ1D024L BRJ2D024L



1 standard type shell insert type



2 standard type shell insert type

Sockets for BRJ Series Relays

SRJ2E



Din-rail mounting, 1PDT/2PDT, for use with SRJ-E series relays

SRJ2W



Din-rail mounting, 1PDT/2PDT, for use with SRJ-W series relays

SRJ2S



Din-rail mounting, 1PDT/2PDT, for use with SRJ-S series relays

Sockets for BRJ Series Relays performance parameter

Performance parameter									
Socket type		SRJ 1E	SRJ2E	SRJ 1S	SRJ 2S	SRJ 1W	SRJ 2W		
Rated load	Electric current	16A	10A	12A	10A	16A	10A		
	Voltage	300V	300V	300V	300V	300V	300V		
Dielectric Strength		4000V/S coil / contact 2500V/S electric shock room							
Screw torque		1.0Nm		-40~+65°C					
Outer connecting wire		20-14/0.5-2.5	5AWG/MM ²	-40~+65°C					
Using environment		-40~+85°C				-40~+65°C			

Socket Dimensions for SRJ1E/ SRJ2E /SRJ 1S/ SRJ 2S/SRJ 1W/SRJ 2W Series Relays

Dimensions

Figure 3 SRJ1E/SRJ2E (for BRJ1/BRJ2 Series Relays)

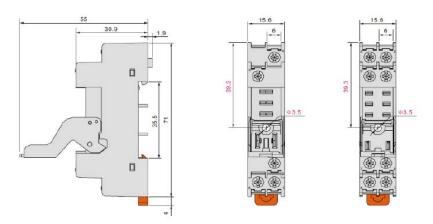


Figure 4 SRJ1S/SRJ2S (for BRJ1/BRJ2 Series Relays)

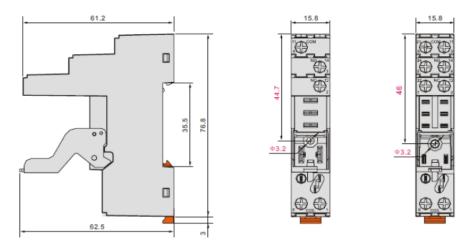


Figure 5 SRJ1E/SRJ2E (for BRJ1/BRJ2 Series Relays)

