BALSEAL

BRJ Series intermediate relay

Interface Relay-pluggable

Features

-High-capacity contacts

-1C/O contact 12A 2C/O contact 8A

-Coil specifications meet the requirements of over 95% of industrial applications.

-DC: 6V, 12V, 24V, 48V, 110V, etc.

-AC: 24V, 110V, 230V, etc.

-Mechanical indicator window, function test lever (optional)

-LED indicators clearly show the action.



Technical Data

Contact resistance	100mΩ 以下 (DC6V 1A)
Operating voltage	Below 75% (at normal temperature)
Release voltage	Above 5% (at room temperature)
action time	Less than 15ms
release time	Less than 10ms (without diode) / 20ms (with diode)
Medium pressure resistance	1000VAC between contacts (1 min) 3000VAC (1 min) between opposite polarity contacts 5000VAC (1 min) between coil and contacts
Surge voltage withstand	8000VAC (1.2/50μs)
Insulation resistance	1000MΩ (500VDC)
Vibration resistance	Malfunction 10-55Hz (dual amplitude 1.5mm) Durability 10-55Hz (1.5mm dual amplitude)
Impact resistance	Malfunction 98m/s2 Durability 980m/s 2
Electrical durability	100,000 times
Mechanical durability	10,000,000 times
Use ambient temperature	-40~70°C (operating); -40~85°C (storage)
Use ambient humidity	20-80% RH

Contact characteristics

Contact composition	1 form C	2 form C
Contact material	Ag alloy	Ag alloy
Contact load	12A 250VAC/(1C)	8A 250VAC/(2C)
Maximum switching current	12A	8A
Maximum switching power	3000VA/360W	2000VA/240W
Minimum applicable load	DC5V, 100mA	DC5V, 100mA

Coil characteristics

(V/DC)				(V/AC)			
Rated voltage (V/DC)	Rated current (mA)	coil impedance (Ω)	power (mW)	Rated voltage (V/AC)	Rated current (mA)	coil impedance (Ω)	power (VA)
12DC	44.4	270±10%	530	12AC	93.0	66.2±10%	1.2~1.4
24DC	22	1090±10%	530	24AC	46.5	265±10%	1.2~1.4
48DC	11	4350±10%	530	48AC	25	1060±10%	1.2~1.4
110DC	4.8	22830±10%	530	110/110AC	11.0/13.0	4600±10%	1.2~1.4
				220/240AC	5.0/5.9	22260±15%	1.2~1.4

Relay Select Code

You need to choose based on the usage.

Product model code

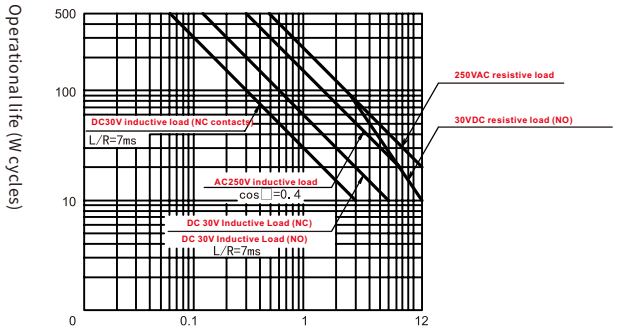
BRJ-G	1	D	024	L	T
Series code	Number of contacts 1 :1C/O 2 :2C/O	Control type D:VDC A:VAC	control voltage 012: 12VDC 024: 24VDC 230: 230VAV	Function definition L:LED	special request T:test button

BALSEAL

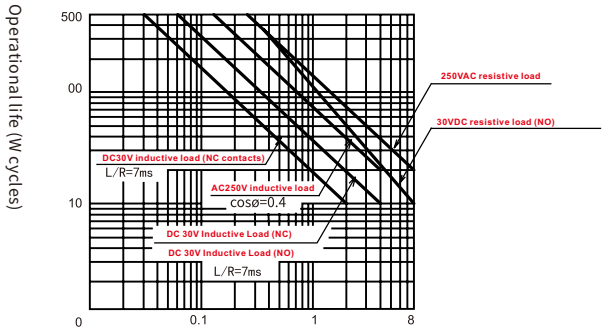
BRJ Series intermediate relay

Performance curve

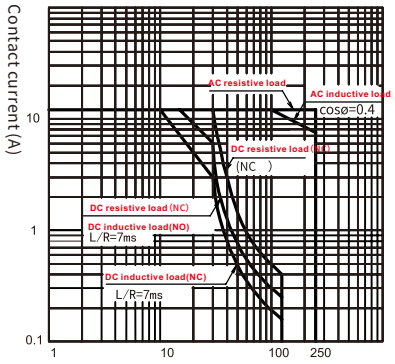
1 Form C



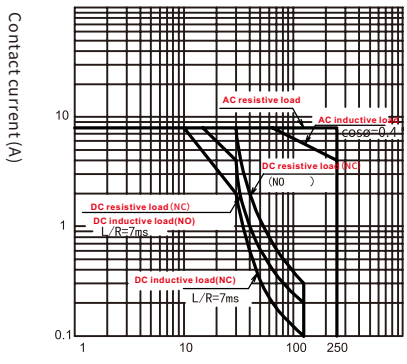
2 Form C



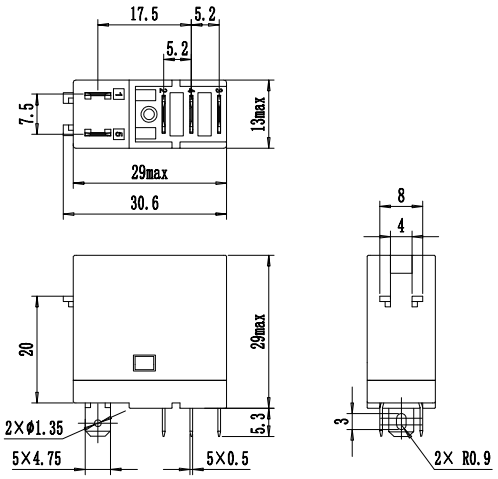
1 Form C



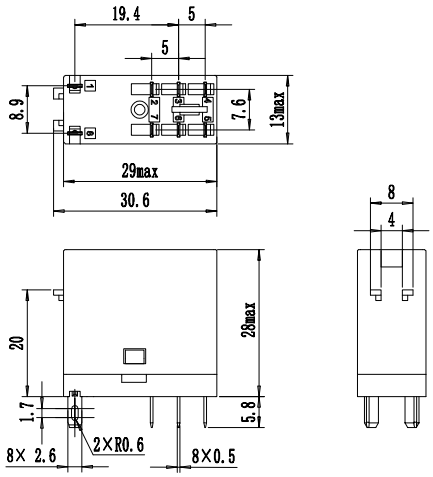
2 Form C



Dimensions



1 Form C

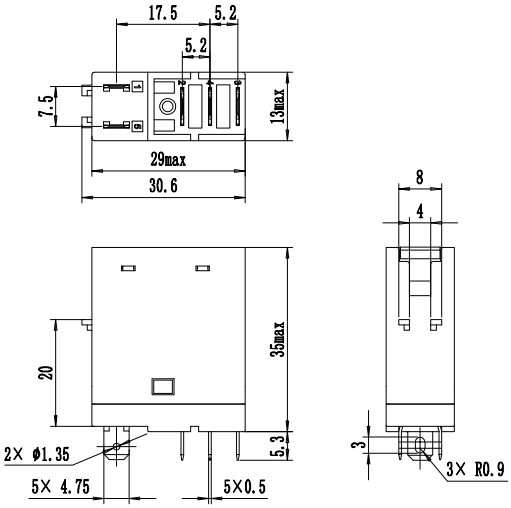


2 Form C

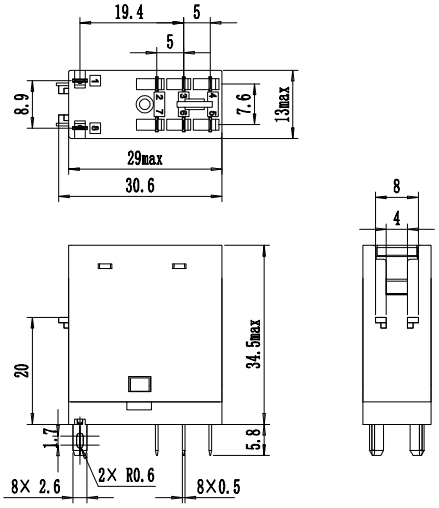
BALSEAL

BRJ Series intermediate relay

Dimensions



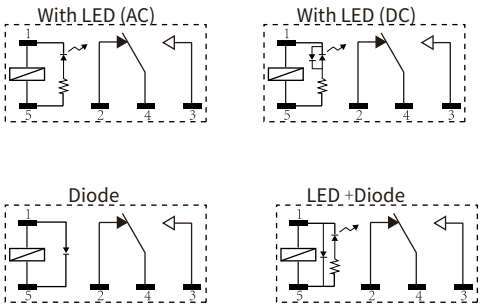
Test button type/ 1 Form C



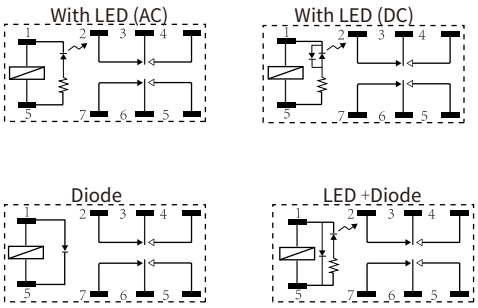
Test button type/ 2 Form C

Wiring Diagram

(1form C)



(2form C)



Note:
1. For DC specification products, please pay attention to the coil polarity and connect the wires correctly after confirming the coil polarity.
2. Unspecified dimensional tolerances: <1mm is +0.2mm, <1-5mm is +0.3mm, >5mm is 0.4mm.

Relay socket



SRJ-1-E/SRJ-2-E



SRJ-1-S/SRJ-2-S

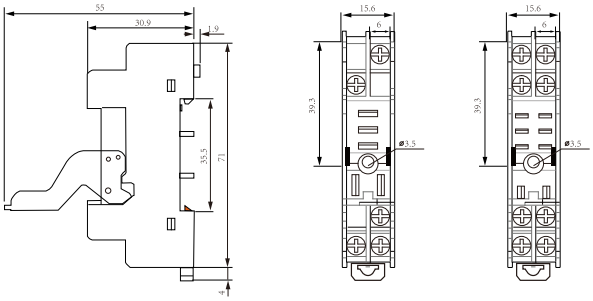
SRJ-*-E Relay socket

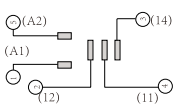
Specified load	Current	16A (SRJ1E)	10A (SRJ2E)
	Voltage	300V	300V
Medium pressure		4000V/S	
Wire strip Length		7mm	
Wire cross section		20-14/0.5-2.5AWGMM^2	
Screw torque		1.0Nm	
Ambient temperature range		-25℃~+85℃	

SRJ-2-S Relay socket

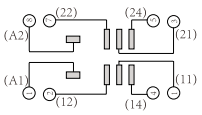
Specified load	Current	12A (SRJ1S)	10A (SRJ2S)
	Voltage	300V	300V
Medium pressure		4000V/S	
Wire strip Length		7mm	
Wire cross section		20-14/0.5-2.5AWGMM^2	
Screw torque		1.0Nm	
Ambient temperature range		-25℃~+85℃	

Dimensions





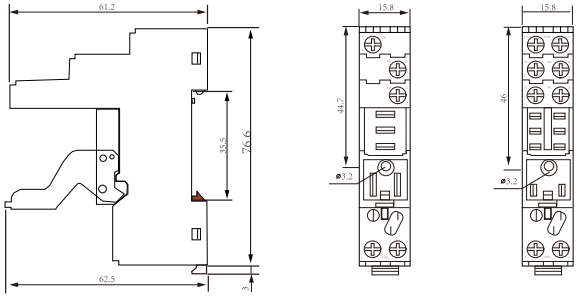
(SRJ1E)

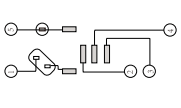


(SRJ2E)

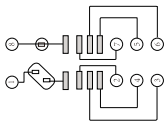
Wiring Diagram

Dimensions





(SRJ1S)



(SRJ2S)

Wiring Diagram

Relay socket



SRJ-1-N/SRJ-2-N



SRJ-1-T/SRJ-2-T

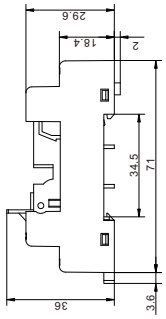
SRJ-*-N Relay socket

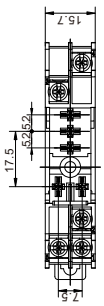
Specified load	Current	16A (SRJ1E)	10A (SRJ2E)
	Voltage	300V	300V
Medium pressure	4000V/S Coil/contact		
Wire strip Length	7mm		
Wire cross section	20-14/0.5-2.5AWGMM^2		
Screw torque	1.0Nm		
Ambient temperature range	-25℃~+85℃		

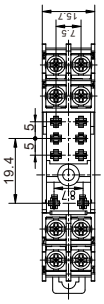
SRJ-*-T Relay socket

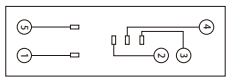
Specified load	Current	12A (SRJ1T)	10A (SRJ2T)
	Voltage	300VAC	300VAC
Medium pressure	4000V/S Coil/contact		
Wire strip Length	Solid wire	10...11mm/0.41in.	
	Fine Stranded Wire	10...12mm/0.43in.	
Wire Size Range	0.25mm2...2.5mm2 /22...14AWG		
Screwdriver Tip Sizes	2.5x0.4mm		
Ambient temperature range	-40℃~+70℃	Flame Retardancy Rating	UL94-V1

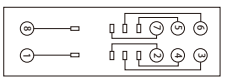
Dimensions







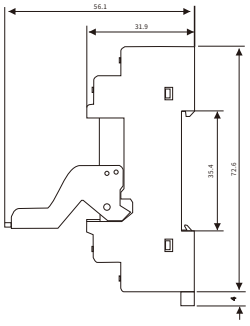


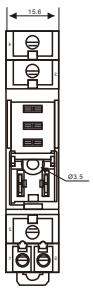


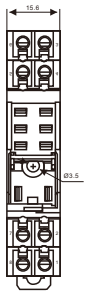
(SRJ1N) (SRJ2N)

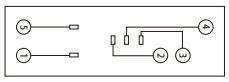
Wiring Diagram

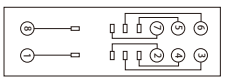
Dimensions











(SRJ1T) (SRJ2T)

Wiring Diagram

Relay socket







SRJ-1-P/SRJ-2-P

SRJG-1-W/SRJG-2-W

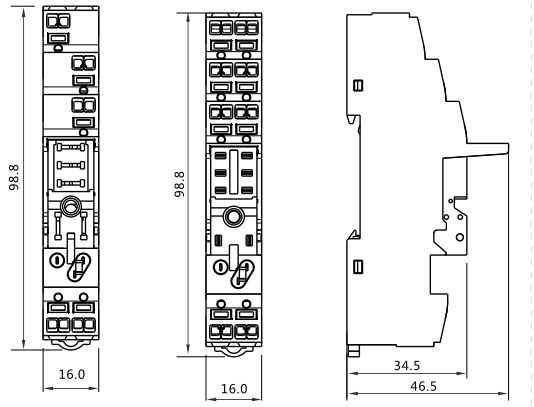
SRJ-*-N Relay socket

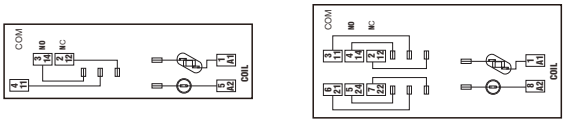
Specified load	Current	16A (SRJ1E)	10A (SRJ2E)	
	Voltage	300V	300V	
Medium pressure	2500V/min			
Wire strip Length	8mm			
Wire cross section	Wire size /mm²	0.5mm²	AWG	21
	Wire size /mm²	2x1.5/1x2.5		2x16/1x14
Screw torque	1.0Nm			
Ambient temperature range	-40℃~+85℃			

SRJG-*-W Relay socket

Specified load	Current	16A (SRJ1T)	10A (SRJ2T)
	Voltage	300VAC	300VAC
Medium pressure	4000V/S Coil/contact 2500V/S Between comtacts		
Weight	4.3g		4.4g
Ambient temperature range	-40℃~+65℃		

Dimensions

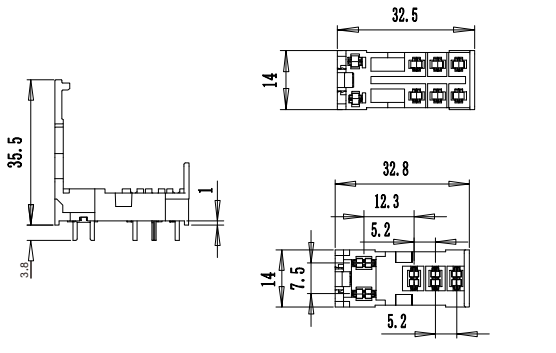


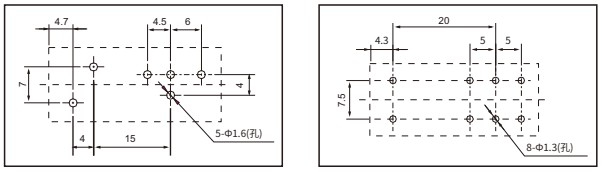


(SRJ1P) (SRJ2P)

Wiring Diagram

Dimensions





(SRJG1W) (SRJG2W)

Wiring Diagram