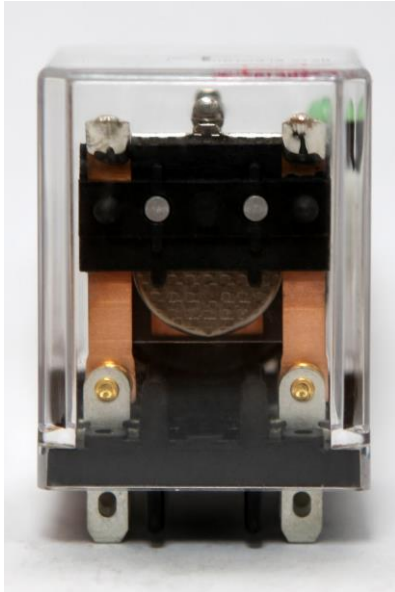
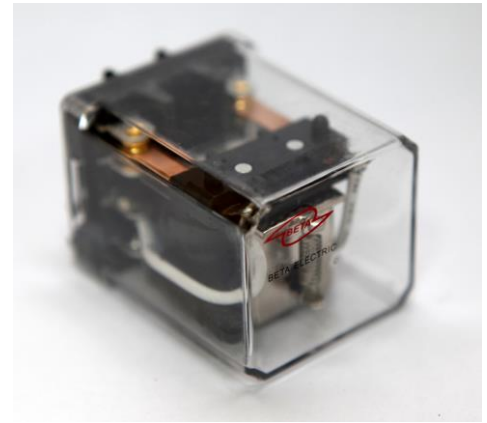


FEATURES



- Plug-in style relay.
- Quick connect receptacles or direct soldering. P.C.B terminals are also acceptable.
- 13A contact rating.
- SPDT, DPDT, 3PDT contact arrangement.
- BTA2 general-purpose relays are available in a wide choice of AC or DC voltages with indicator lamp and/or manual push button.
- UL E115915



LINEUP

■ STANDARD COIL POLARITY

Contact form	Solder/plug-in terminal / P.C.B terminals		
	Standard	With LED	With LED and Manual button
SPDT	BTA2-1C-B-S2-C	BTA2-1C-B-S2-C-L	BTA2-1C-B-S2-C-LM
DPDT	BTA2-2C-B-S2-C	BTA2-2C-B-S2-C-L	BTA2-2C-B-S2-C-LM
3PDT	BTA2-3C-B-S2-C	BTA2-3C-B-S2-C-L	BTA2-3C-B-S2-C-LM
SPNC	BTA2-1B-B-S2-C	BTA2-1B-B-S2-C-L	BTA2-1B-B-S2-C LM
DPNC	BTA2-2B-B-S2-C	BTA2-2B-B-S2-C-L	BTA2-2B-B-S2-C-LM
3PNC	BTA2-3B-B-S2-C	BTA2-3B-B-S2-C-L	BTA2-3B-B-S2-C-LM
SPNO	BTA2-1A-B-S2-C	BTA2-1A-B-S2-C-L	BTA2-1A-B-S2-C-LM
DPNO	BTA2-2A-B-S2-C	BTA2-2A-B-S2-C-L	BTA2-2A-B-S2-C-LM
3PNO	BTA2-3A-B-S2-C	BTA2-3A-B-S2-C-L	BTA2-3A-B-S2-C-LM

Notes:

1. You can choose contact material by switching the codes. For instance: BTA2-1C-B-S2-C (AGSNO2 gold flashed) can be changed to BTA2-1C-E-S2-C (AGCDO gold flashed)
Blank: AGCDO B: AGSNO2 gold flashed E: AGCDO gold flashed D: AGNI gold flashed G: silver
2. You can choose terminal style by switching the codes. For instance: BTA2-1C-B-S2-C (4.8X0.5) can be changed to BTA2-1C-B-S1-C (S1: 4.8X0.8)
S1: 4.8X0.8 S2: 4.8X0.5 P2: 1.2X0.8 P3: 1.2X0.5 (See the Terminal Style figure below)
3. You can choose cover style by switching the codes. For instance: BTA2-1C-B-S2-C (plain cover) can be changed to BTA2-1C-F-S2-C1. (side flange cover)
C: plain cover C1: side flange cover C2: 6-32 Tapped crop and anti-rotation lab C3: top flange cover
C4: din rail cover C5: clip cover CS: black plain cover D: open type (See the Cover style figure below)



BTA2 SERIES

BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

SOCKETS & ACCESSARIES

Poles	Front-mounting Socket (DIN-track/screw mounting)
1C/2C/3C	BTA3-11A
	BTA3-11AN

Notes: The socket in the table is used in the 0.5MM thickness of S2 terminal only.

SPECIFICATIONS

COIL RATINGS

Rated voltage(V)	Rated current(mA)		Coil resistance (Ω)	Must operate voltage	Must release voltage	Max. voltage	Power consumption (approx.)
	50 Hz	60 Hz					
AC (1C,2C)	6	442	425	85	30	110	2.0VA
	12	263	242				
	24	122.4	110.9				
	48	51.3	45.6				
	110	23	20.5				
	120	22.3	19.5				
	220	14.5	12.8				
	240	114.4	10.1				
AC (3C)	6	726	654	85	30	110	2.75VA
	12	297	268				
	24	146.8	127.2				
	48	73.8	65.3				
	110	31.2	27.5				
	120	33.1	29.4				
	220	15.5	13.5				
	240	27	23.2				



BTA2 SERIES

BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

Rated voltage(V)		Rated current (mA)		Coil resistance (Ω)	Must operate voltage	Must release voltage	Max. voltage	Power consumption (approx.)
		50 Hz	60 Hz					
DC (1C,2C,3C)	6	165.7		32	80	10	110	1.2W
	12	95.6		120				
	24	60.3		472				
	48	26.4		1800				
	110	10.8		10000				
	120	10.8		10000				

Note:

1. The test value of coil resistance was at a temperature of 25 ° C, humidity 35% to 70%.
2. The operating parameter is measured at a coil temperature of 25°C indicated in the percentage of the rated voltages.
3. The coil rated current is measured as the real current consumption under the rated voltages.

■ CONTACT RATINGS

Item	1C	2C	3C
Resistive load (cos Φ = 1)	13A,240VAC 13A,28VDC	12A,240VAC 12A,28VDC	11A,240VAC 11A,28VDC
Motor	1/3HP,120VAC 1/2HP,240VAC		
Max. switching voltage	250VAC, 125VDC		
Max. switching current	13A		
Max. switching power	3120VA 364W	2880VA 364W	3640VA 308W



BTA2 SERIES

BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

CHARACTERISTICS

Item	All Relays
Contact resistance	50m Ω Maximum.
Operate time	AC: 30mS Maximum, DC: 20mS Maximum
Release time	AC: 25mS Maximum, DC: 15mS Maximum
Max. operating frequency	Mechanical: 18,000 operations/h Electrical: 1,800 operations/h (under rated load)
Insulation resistance	1000M Ω Minimum. At 500VDC.
Dielectric strength	Between open contact: 1000 VAC for 1 minute.
	Between contact and coil: 1500VAC for 1 minute.
	Between live parts and ground: 1500VAC for 1 minute.
Vibration resistance	Destruction: 10 to 55Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Shock resistance	Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 1,00 m/s ² (approx. 10G)
Endurance	Mechanical: 10,000,000 operations min (at 18,000 operations/h) Electrical: 100,000 operations min (at 1,800 operations/h under rated load)
Ambient temperature	Operating: -30°C to +50°C (AC); -30°C to +65°C (DC)
Ambient humidity	Operating: 5% to 85%
Weight	88g

SOCKETS Dielectric withstand voltage · Insulation resistance

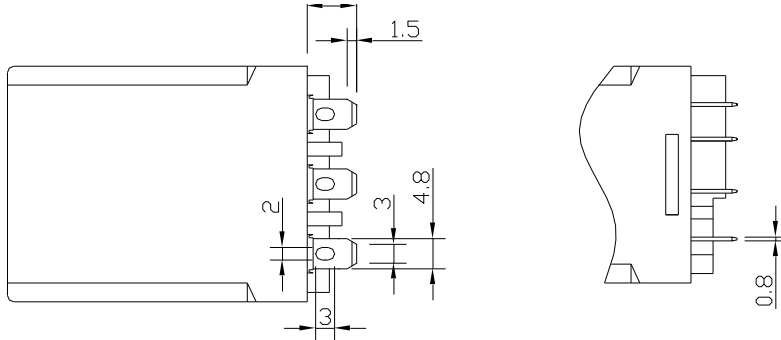
Pole	Model	Carry current	Dielectric withstand voltage	Insulation resistance
1C/2C/3C	BTA3-11A	13A	1500VAC 1min	1000M Ω Minimum. At 500VDC.
	BTA3-11AN	13A	1500VAC 1min	1000M Ω Minimum. At 500VDC.

DIMENSION

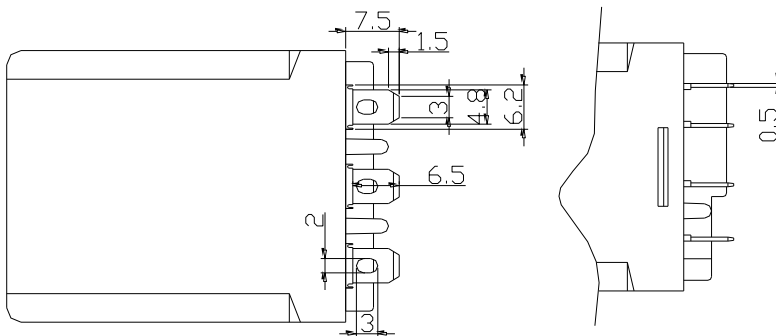
■ Relays with Solder/Plug-in Terminals

Terminal style

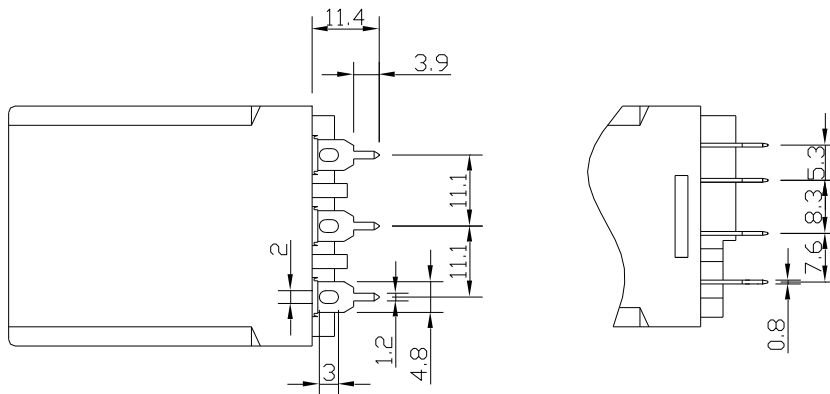
Solder/plug-in terminal: S1



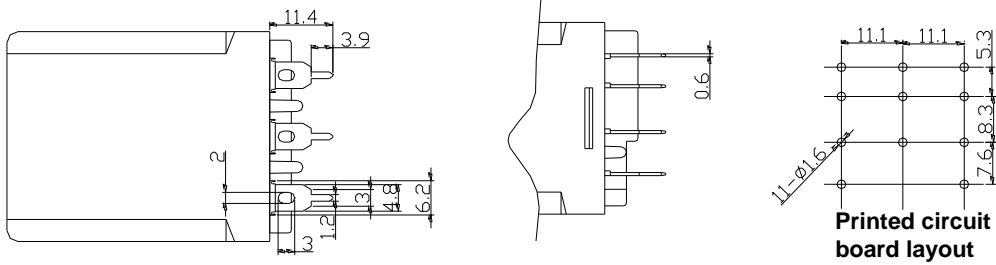
Solder/plug-in terminal: S2



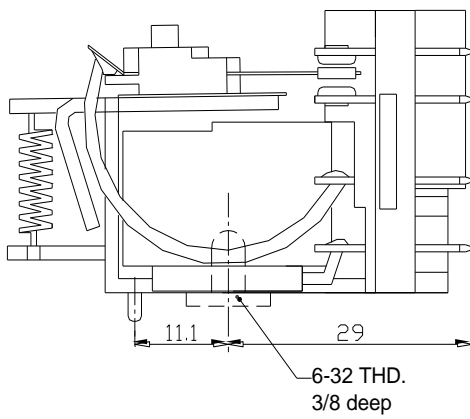
PC terminal: P2



PC terminal: P3

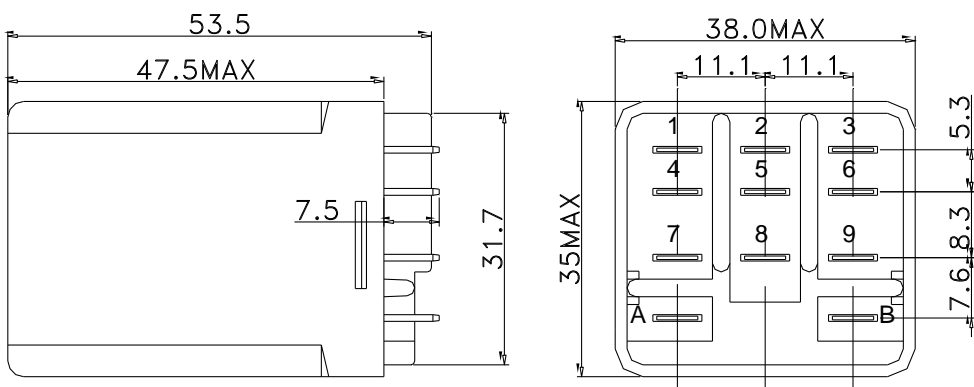


Open style : code D

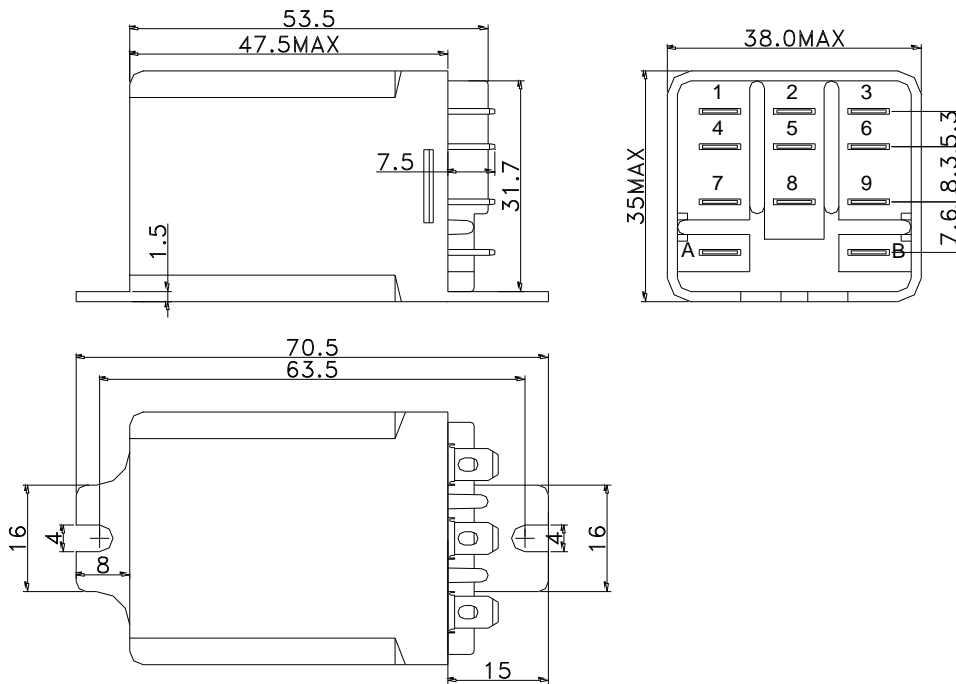


Cover style

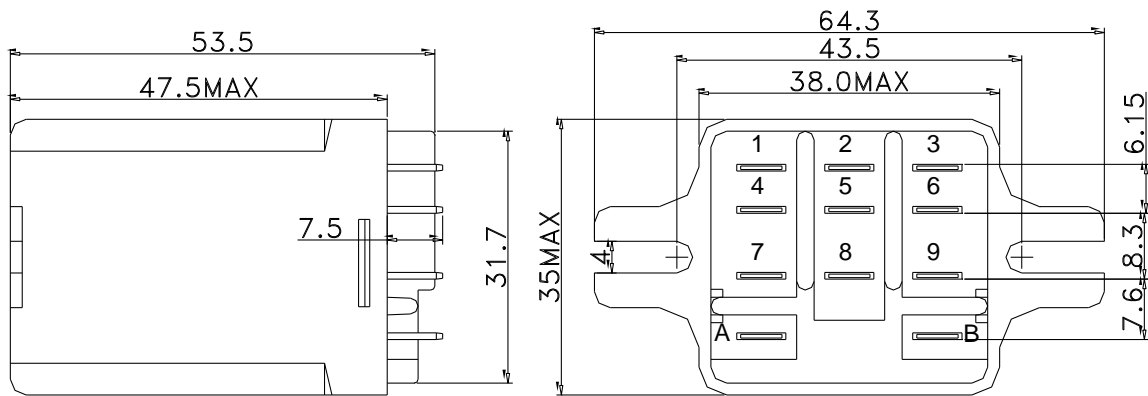
Plain cover : code C



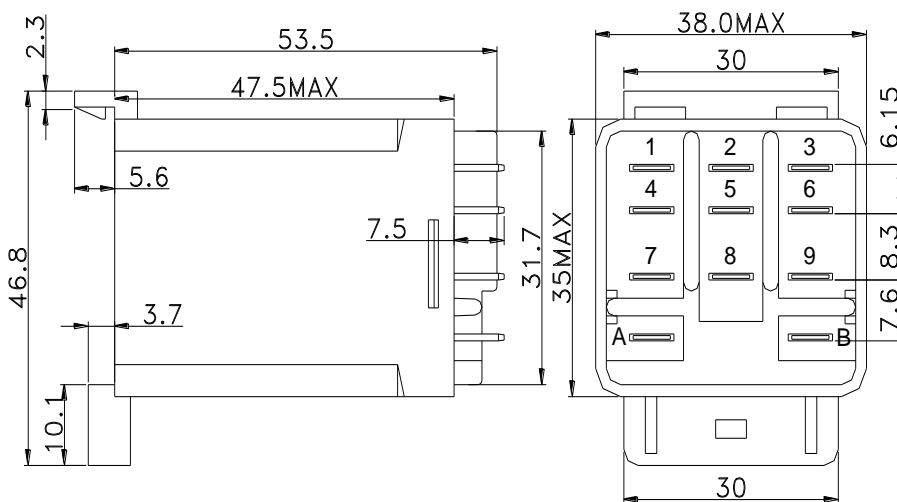
Side flange cover : code C1



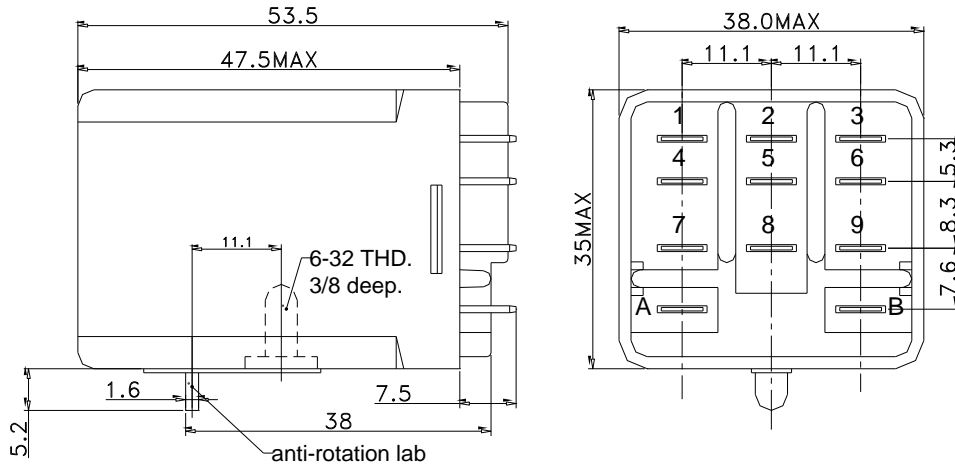
Top flange cover : code C3



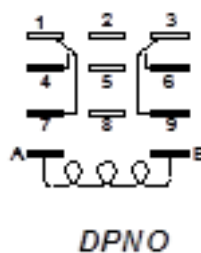
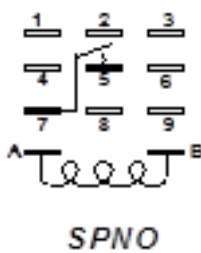
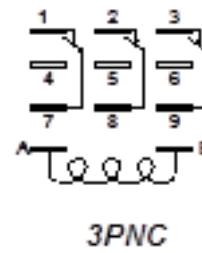
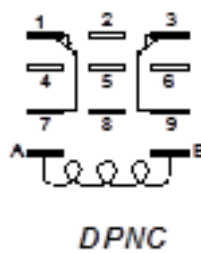
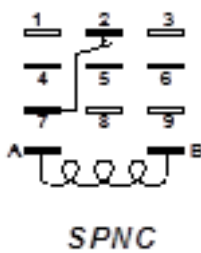
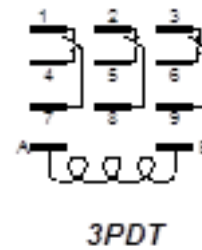
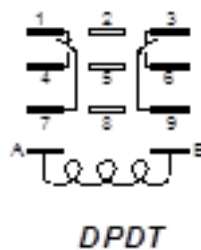
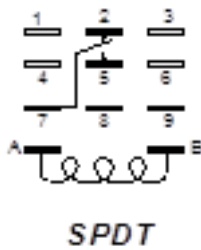
Din rail mount : code C4



6-32 Tapped crop and anti-rotation lab: code C2

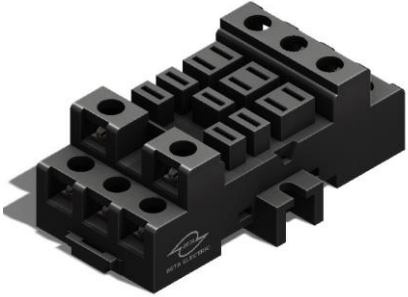
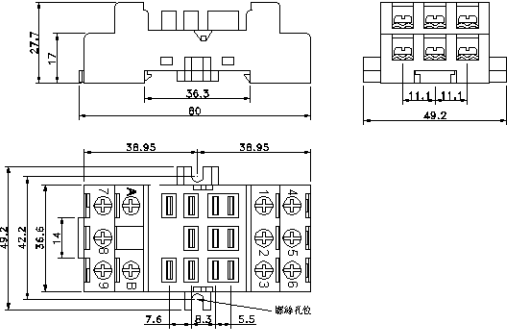
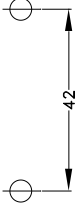

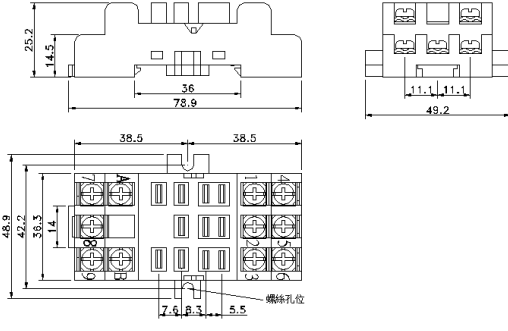



Wiring diagram



ACCESSORIES

SOCKET outline drawing · dimensions · Wiring · Mounting

Type	dimensions	Wiring	Mounting
<p style="text-align: center;">BTA3-11AN</p> 		<p style="text-align: center;">Refer to Wire diagrams</p>	<p>1. track mounting 2. screw mounting</p> 
<p style="text-align: center;">BTA3-11A</p> 		<p style="text-align: center;">Refer to Wire diagrams</p>	<p>1. track mounting 2. screw mounting</p> 

Notes: The socket in the table is used in the 0.5MM thickness of S2 terminal only.



HOW TO ORDER

BTA2- 3C S C M4L- 12VAC

