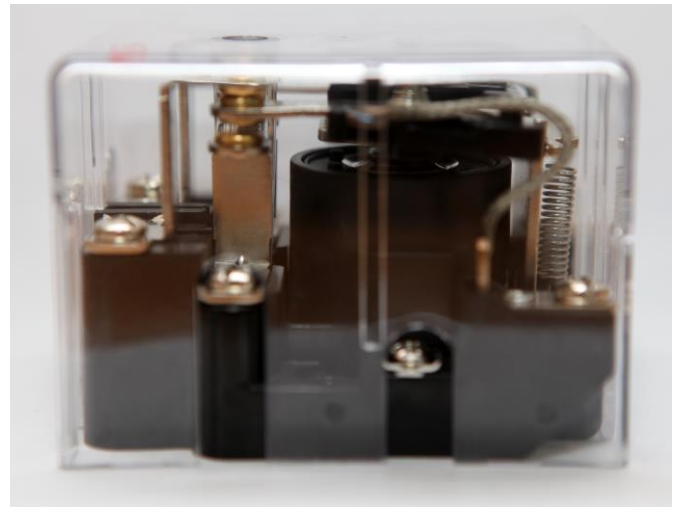


FEATURES

- Panel mount open style construction
- Multi contact configurations up to 50 AMPS switching
- Magnetic blowout for DC switching
- Class B insulation system
- Screw wire connections
- Auxiliary switch



LINEUP

■ STANDARD COIL POLARITY

Contact form	Screw terminal			
	Standard Type		with Auxiliary switch	
	30 Amp contact	50 Amp contact	30 Amp contact	50 Amp contact
SPDT	BT199-1C30	N/A	BT199-1C30-B	N/A
DPDT	BT199-2C30	BT199-2C50	BT199-2C30-B	BT199-2C50-B
DPST-NO	BT199-2A30	N/A	BT199-2A30-B	N/A
SPST-NO-DM	BT199-1X30	N/A	BT199-1X30-B	N/A
SPST-NC-DB	BT199-1Y30	N/A	BT199-1Y30-B	N/A

- Notes:
1. This series can offer option of magnet blow out. Add BT199 suffix letter B represents the Blow-out feature For instance: BT199B-1C30
 2. Cover for Standard Type is optional, if in need, please suffix "C" to specification. For instance: BT199-2C30-C.
 3. There are two options of base can be chose. Please suffix "base type code" to specification. For instance: BT199-1C30-A (din-rail base)
BLANK: plain base A: din-rail base
 4. Pyrocondensation tube is optional for screw terminal if needed. Please suffix "D" to specification. For instance: BT199-1C30-D. If no need, please blank

SPECIFICATIONS

■ COIL RATINGS

Rated voltage		Coil resistance (Ω)	Must operate voltage	Must release voltage	Max. voltage	Power consumption (approx.)
			% of rated voltage			
AC	6 V	0.86	85	30	110	10VA
	12 V	3.2				
	24 V	12				
	48V	46				
	110/120 V	260				
	208V	850				
	220V	1040				
	240V	1200				
	277V	1500				
	480V	4500				
DC	6 V	18	80	10		2W
	12 V	70				
	24 V	290				
	48V	1200				
	110/125 V	6000				

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.



BT199 SERIES

BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

CONTACT RATINGS

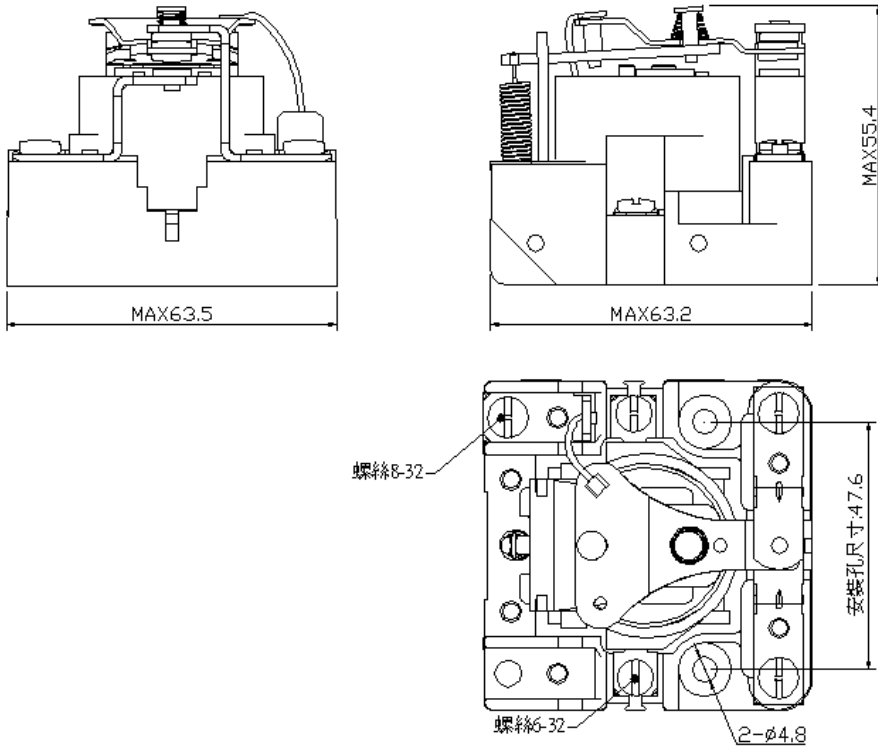
Item	1C/2C/2A/1X/1Y	2C
	30 Amp contact	50 Amp contact
Resistive load (cosΦ = 1)	30A 300VAC 30A 28VDC	50A 300VAC 50A 28VDC
Contact material	AgSnO ₂	AgCdO ₁₇
Motor	1Hp 120 thru 600VAC,50/60Hz	2Hp 120 thru 600VAC,50/60Hz
Max. switching voltage	600VAC 28VDC	600VAC 28VDC
Max. switching current	30A	50A
Max. switching power	9000VA 840W	15000VA 1400W

CHARACTERISTICS

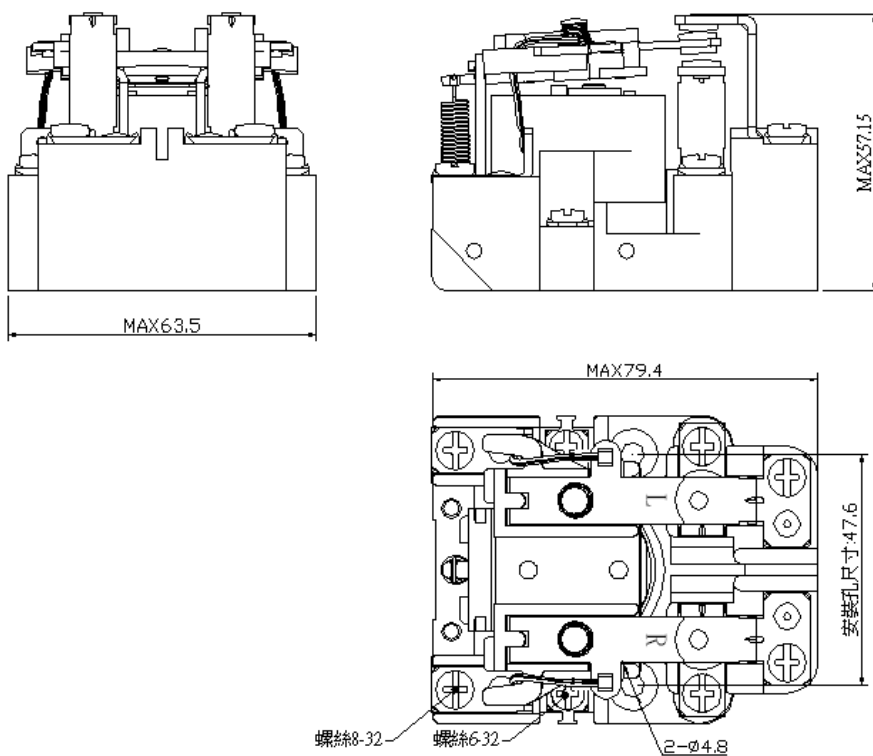
Item	All Relays
Contact resistance	100 mΩ Maximum.
Operate time	20mS Maximum.
Release time	15mS Maximum.
Max. operating frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)
Insulation resistance	1000 MΩ Minimum. At 500VDC.
Dielectric strength	Between open contact: 1500 VAC for 1 minute.
	Between contact and coil: 2200VAC for 1 minute.
	Between live parts and ground: 2200VAC for 1 minute.
Vibration resistance	Destruction: 10 to 55Hz, 0.5 mm single amplitude (1.0 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 Malfunction: 200 m/s ²
Endurance	Mechanical life: 10,000,000 operations. Electrical life: 100,000 operations.
Ambient temperature	-55°C TO +50°C (AC); -55°C TO +80°C (DC).
Ambient humidity	5% to 85%
Weight	310g

OUTLINE & DIMENSION

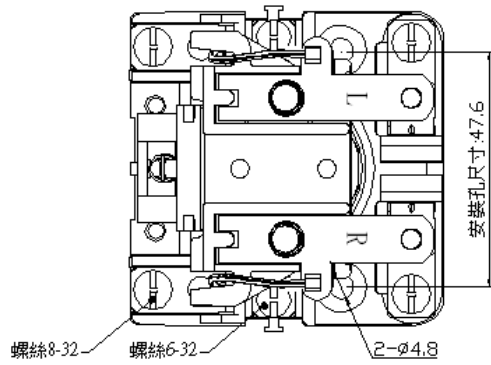
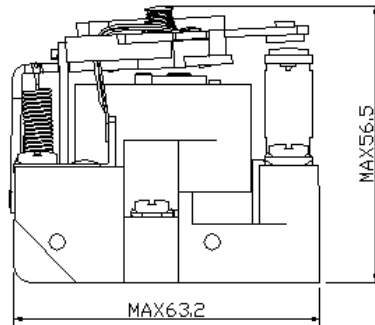
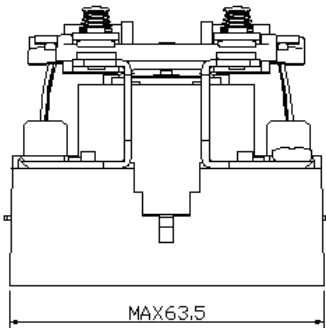
BT199-1C



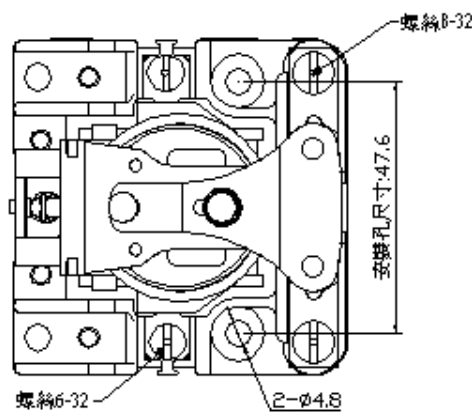
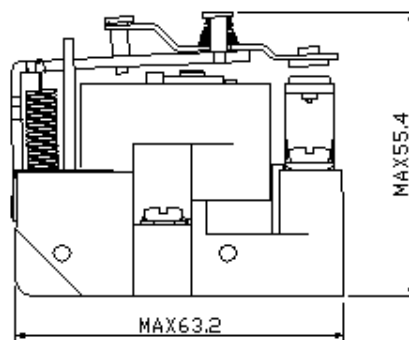
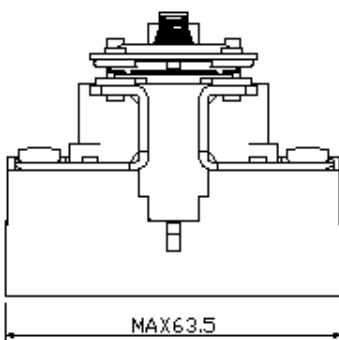
BT199-2C



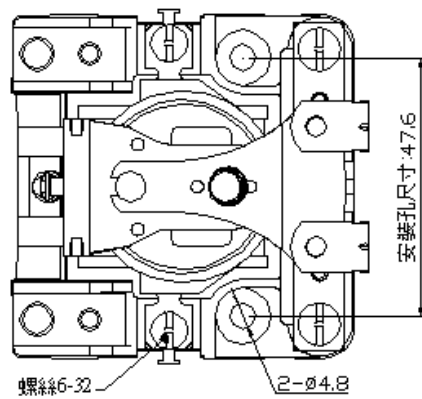
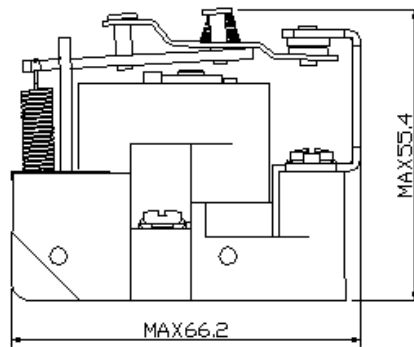
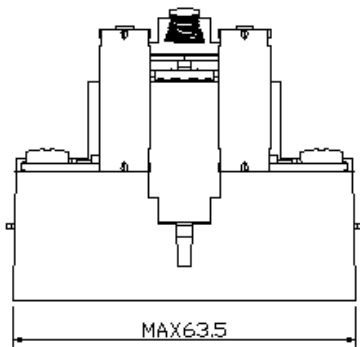
BT199-2A



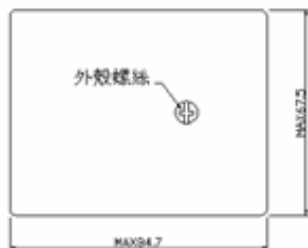
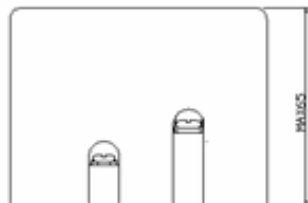
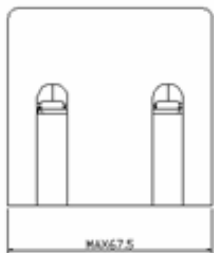
BT199-1X



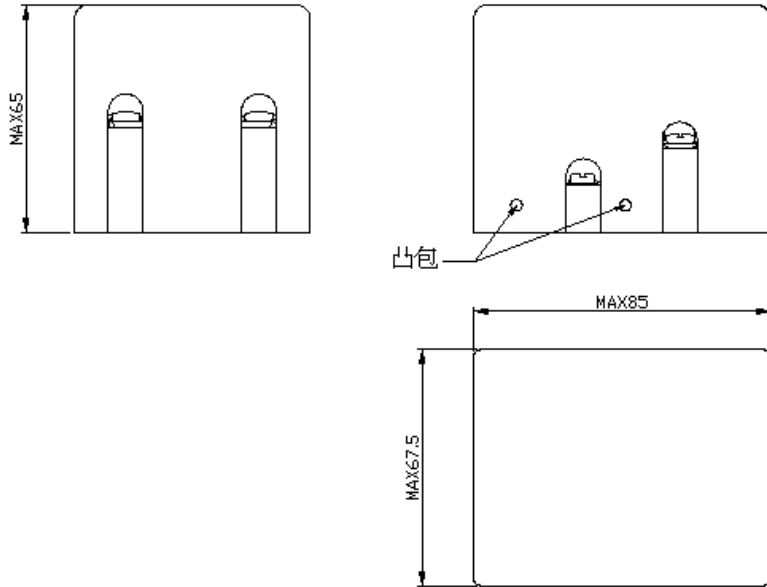
BT199-1Y



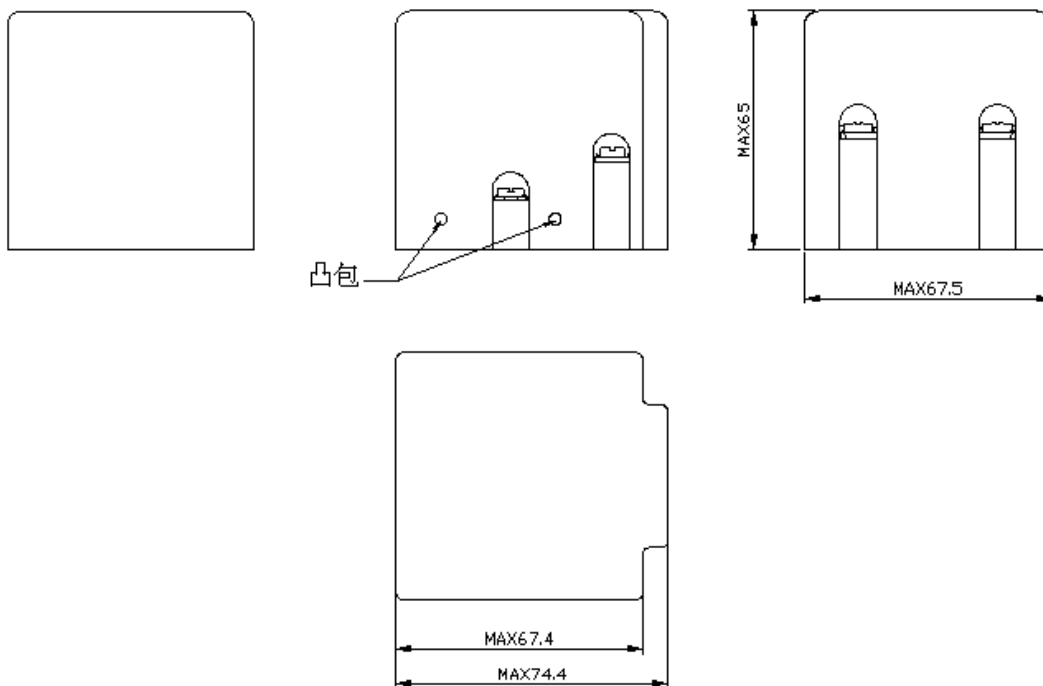
Outline drawing of 2C without magnet and auxiliary switch (Fixed with screw)



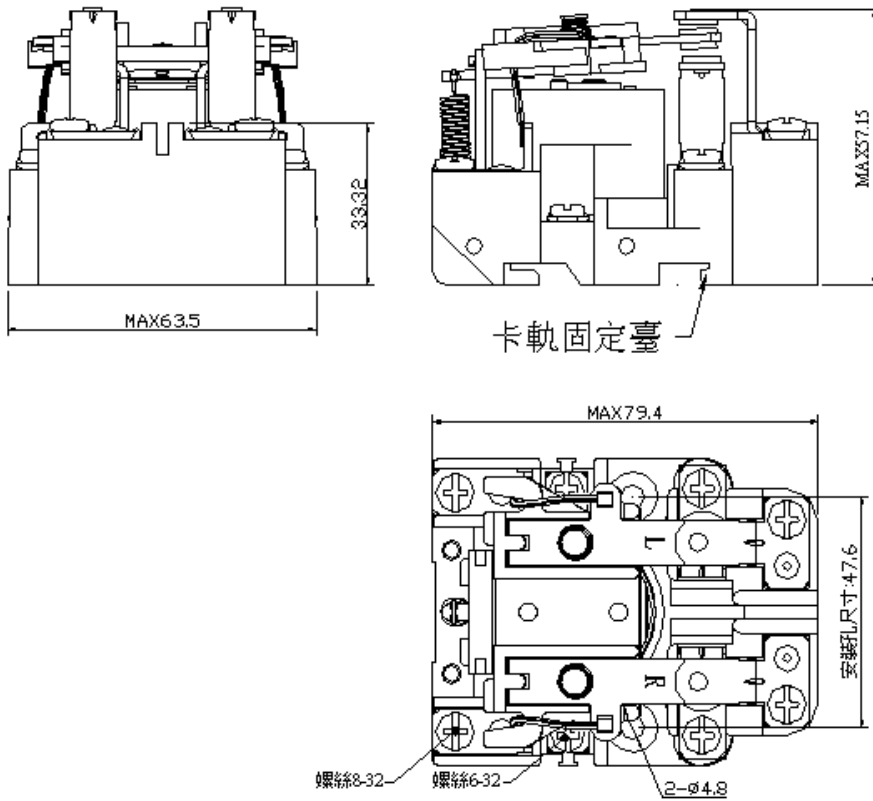
Outline drawing of 2C without auxiliary switch (Fixed with obstacles inside cover)



Outline drawing of 1C/2A/1X/1Y without auxiliary switch (Fixed with obstacles inside cover)

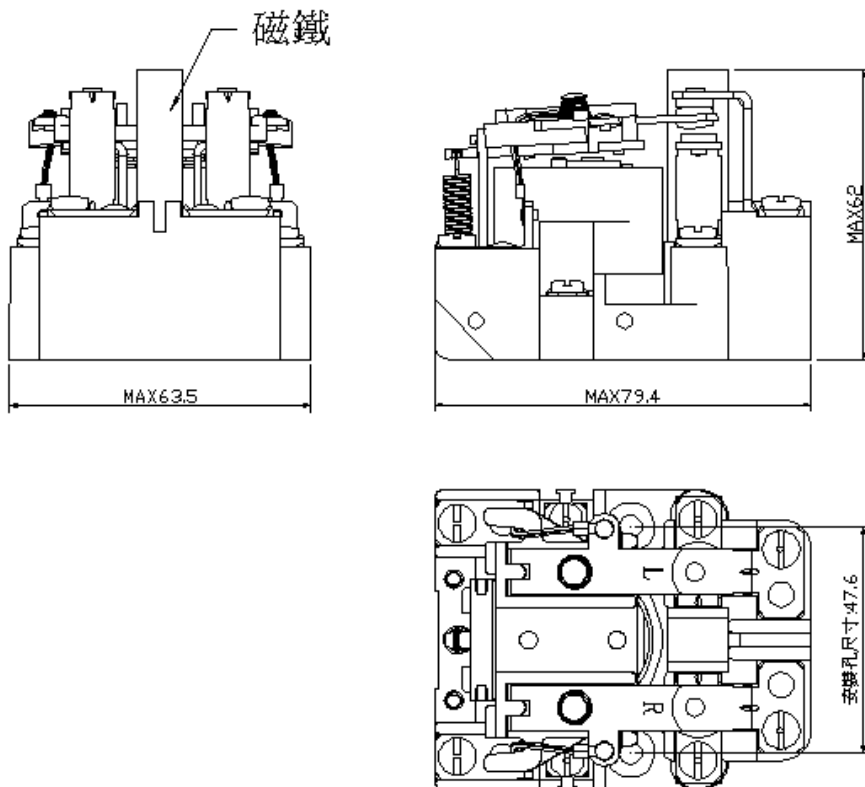


BT199-2C-A



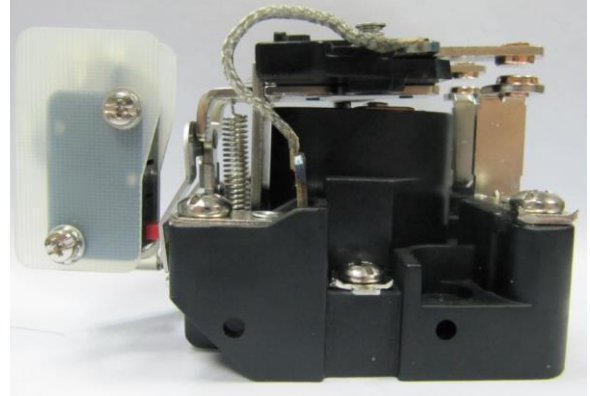
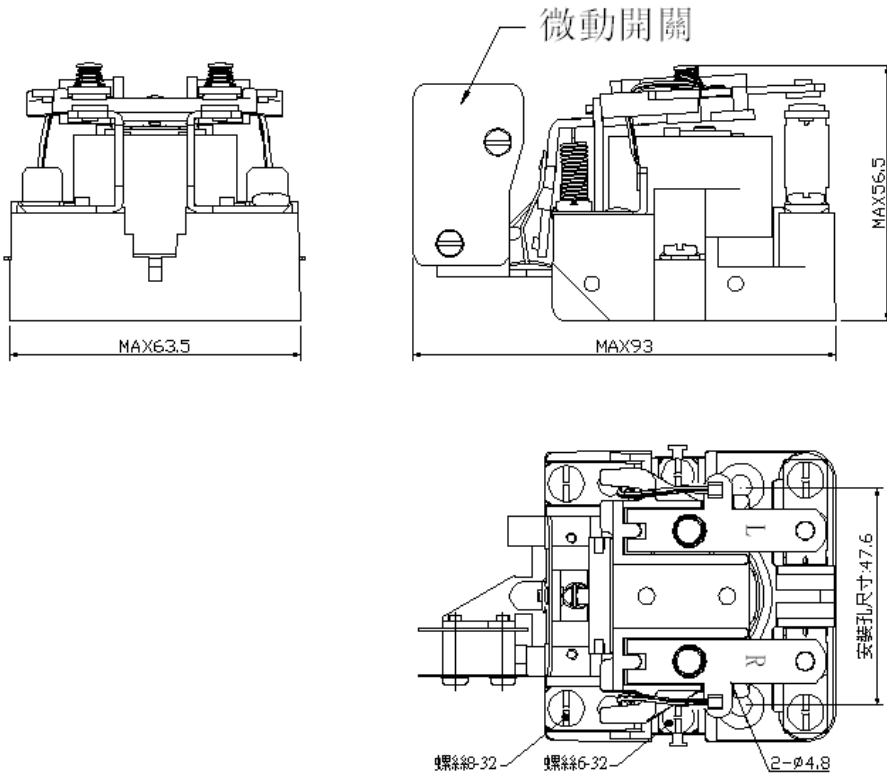
NOTE: Din-rail base is able to be applied to all construction

BT199B-2C



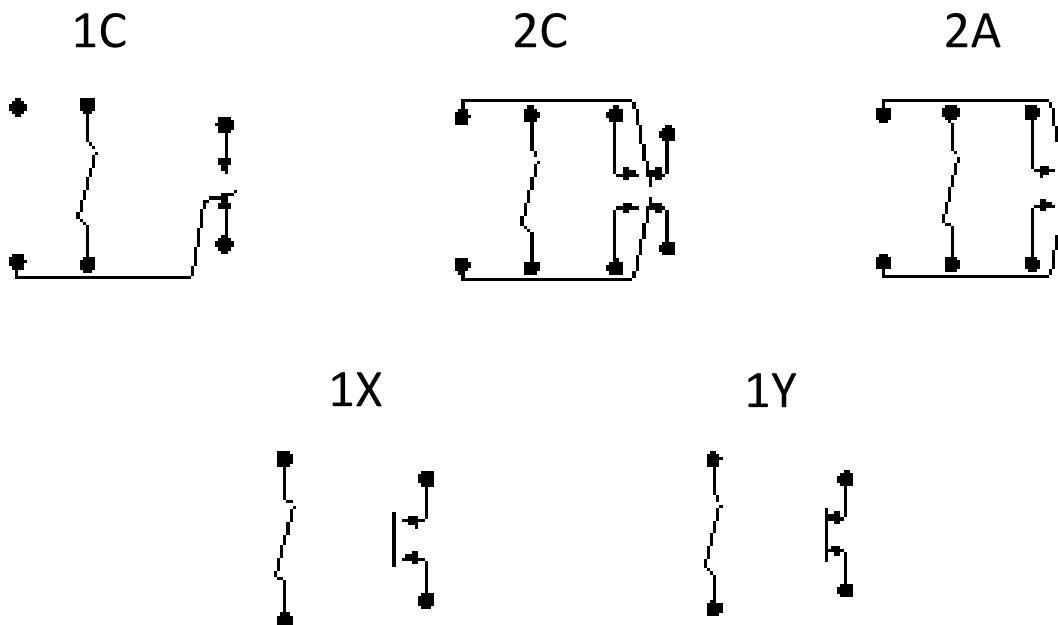
NOTE: Magnet blow-out is able to be applied to DC construction

BT199-2A-B



NOTE : Auxiliary switch is able to be applied to all specifications.

Wiring diagram





BT199 SERIES

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HOW TO ORDER

BT199- 2C 40 - C A 12VAC - F

