

BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

FEATURES

- Shows relay status in manual or powered condition.
- Shows coil"on"or"off"status ideal in low light conditions.
- Allows for manual operation of relay without the need for coil power. ideal for field service personnel to test control circuits
- When activated, holds push button and contacts in the operate position. Excellent for analyzing circuit problems
- The full feature relay includes the combination for rotary button or plain button or light or indicator flag. They can be chosen for every combination
- Allows operator to remove relays from sockets more easily than conventional relays
- Used for identification of relays in multi-relay circuits





BTA7 SERIES

LINEUP

STANDARD COIL POLARITY

Туре	Contact form	Standard	With LED and flag	With LED, push button and flag	With LED, lock down push button and flag
S type terminal	DPDT	BTA7-2C-S-CW	BTA7-2C-S-CL	BTA7-2C-S-CML	BTA7-2C-S-CM4L
	3PDT	BTA7-3C-S-CW	BTA7-3C-S-CL	BTA7-3C-S-CML	BTA7-3C-S-CM4L
P type terminal	DPDT	BTA7-2C-P-CW	BTA7-2C-P-CL	BTA7-2C-P-CML	BTA7-2C-P-CM4L
	3PDT	BTA7-3C-P-CW	BTA7-3C-P-CL	BTA7-3C-P-CML	BTA7-3C-P-CM4L

SOCKETS & ACCESSARIES

Poles	SOCKET		
	BTA3-11A		
DPDT/3PDT	BTA3-11AN		

Note: Above sockets are only applied to type "S" terminal





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SPECIFICATIONS

COIL RATINGS

Rated voltage		Rated current 50 Hz 60 Hz		Coil resistance (Ω)	Must operate voltage	Must release voltage of rated volta	Max. voltage	Power consumption (approx.)	
6 V*		684	597	4.2	/0		se		
					85			2.0-2.75VA	
	12 V	294	240	18					
	24 V	114.7	95.9	72					
AC	48V	73.8	65.3	290		85 30			
	110/120V	22.5	19.2	1700		30			
	220V	15.5	13.1	7200					
	230V	13.4	11.1	8000				110	
	240V	11.4	10.1	9000					
	6 V*	169.6		32	80	10			
DC	12 V	106		120				1.2-2.0W	
	24 V	52		470					
	48V*	25.1		1800					
	110 V	10.6		10000					

Note:

1. The coil resistance is measured at a coil temperature of 25 $^\circ\!\mathrm{C}$ and 35%-70% of humidity.

2. The operating parameter is measured at a coil temperature of 25 $^\circ\!\mathrm{C}$ indicated in the percentage of the rated voltages.

3. The coil rated current is measured as the real current consumption under the rated voltages.





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CONTACT RATINGS

Item	2C/3C		
Resistive load (CosΦ=1)	10A 240VAC 10A 28VDC		
Inductive load (cosΦ=0.4L/R=7ms)	5A 240VAC 5A 24VDC		
Motor	1/3HP 120VAC 1/2HP 240VAC		
Carry current	10A		
Max. switching voltage	250VAC 125VDC		
Max. switching current	10A		
Max. switching power	2400VA 280W		

CHARACTERISTICS

Item	All Relays			
Contact resistance	50mΩ 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 500MΩ Minimum. At 500VDC.				
	Between open contact: 1500 VAC for 1 minute.			
Dielectric strength	Between contact and coil: 1500VAC for 1 minute.			
	Between live parts and ground: 1500VAC for 1 minute.			
Vibration resistance Malfunction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double Malfunction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double				
Destruction: 1,000 m/s ² Shock resistance Malfunction: 200 m/s ²				
Endurance	Mechanical life: 10,000,000 operations. Electrical life: 100,000 operations.			
Ambient temperature	-30℃ TO +50℃ (AC); -30℃ TO +55℃ (DC).			
Ambient humidity	5% to 85%			
Weight	88g			





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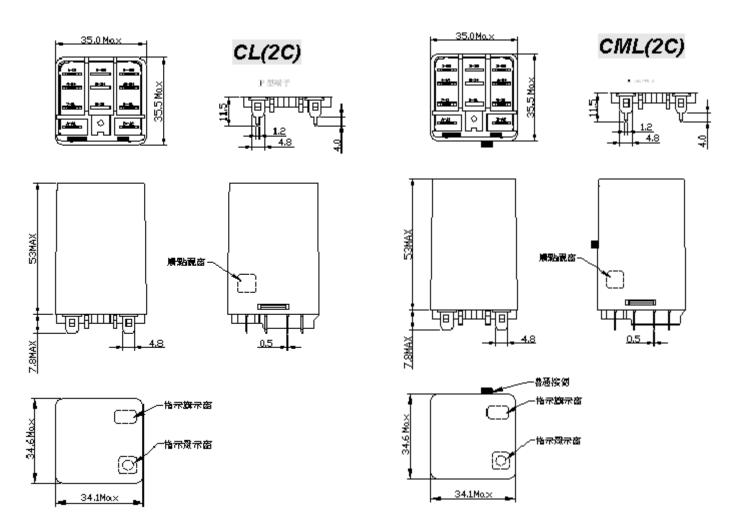
SOCKETS Dielectric strength, Insulation resistance

Pole	Model	Carry current	Dielectric withstand voltage	Insulation resistance	
DPDT	BTA3-11AN/BTA3-11A	30A			
3PDT	BTA3-11AN/BTA3-11A	30A	1500 VAC for 1 minute.	500MΩ Minimum. At 500VDC.	

DIMENSION

■ Relays with Solder/Plug-in Terminals

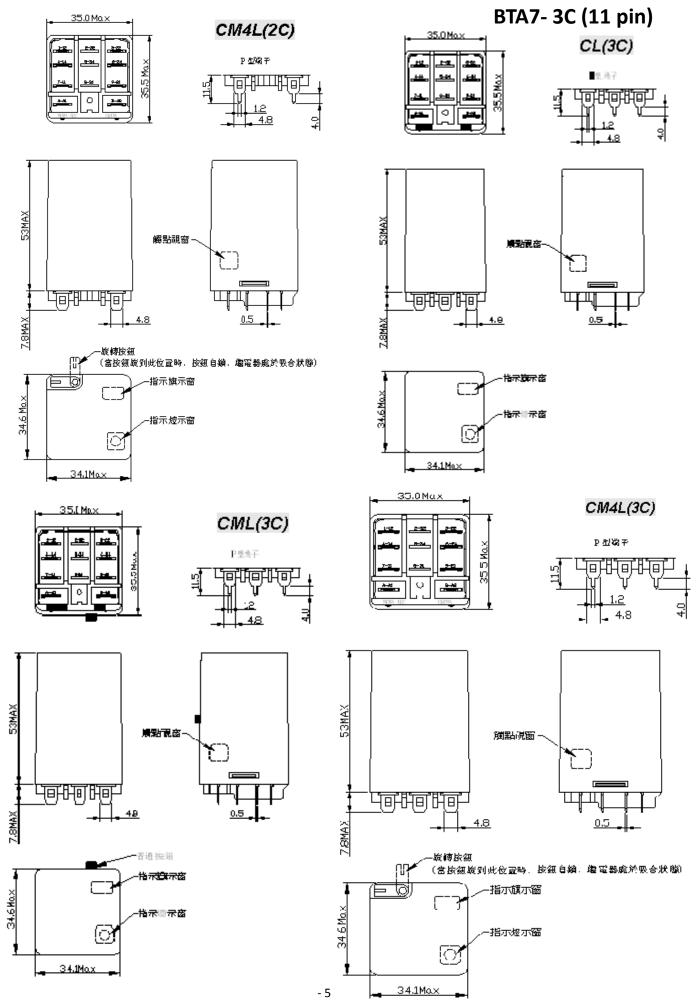
BTA7-2C (8 pin)





BTA7 SERIES

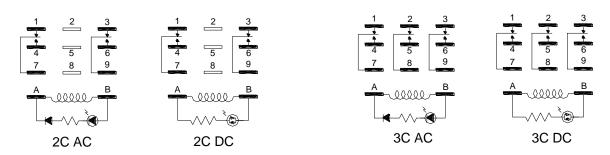
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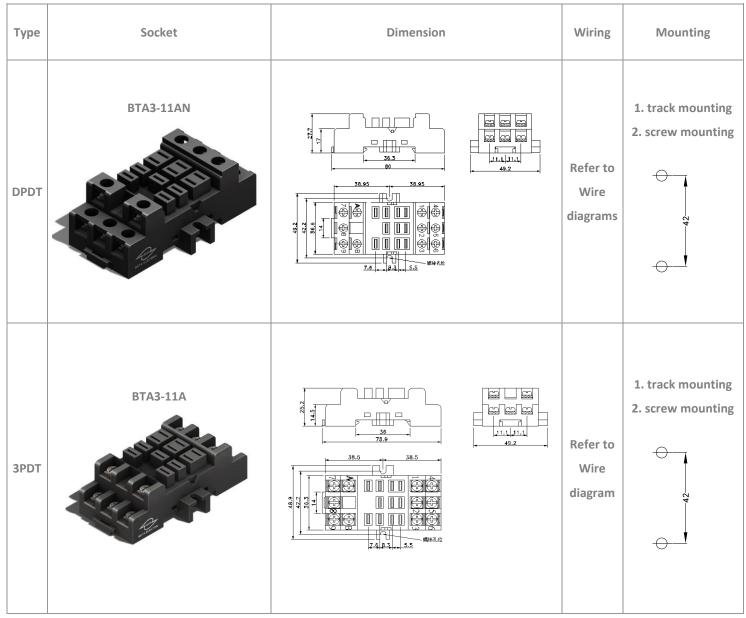


BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS Wiring diagram



ACCESSARIES

SCOKET socket outline drawing, dimensions, wiring, Mounting







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HOW TO ORDER

