

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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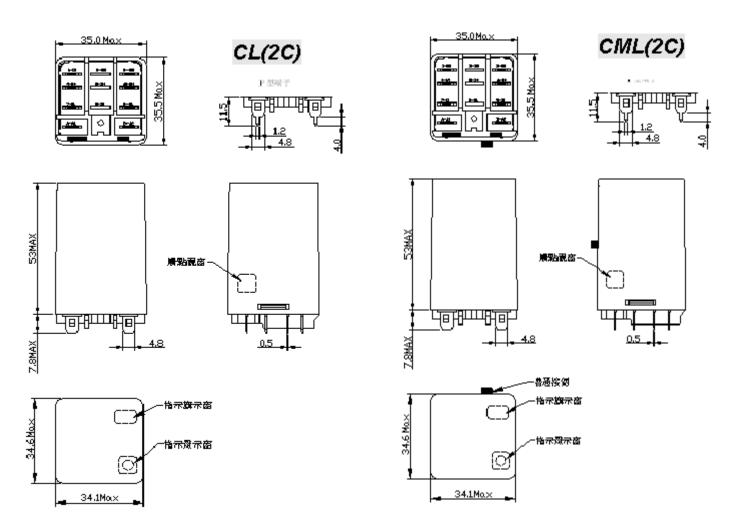
SOCKETS Dielectric strength, Insulation resistance

| 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

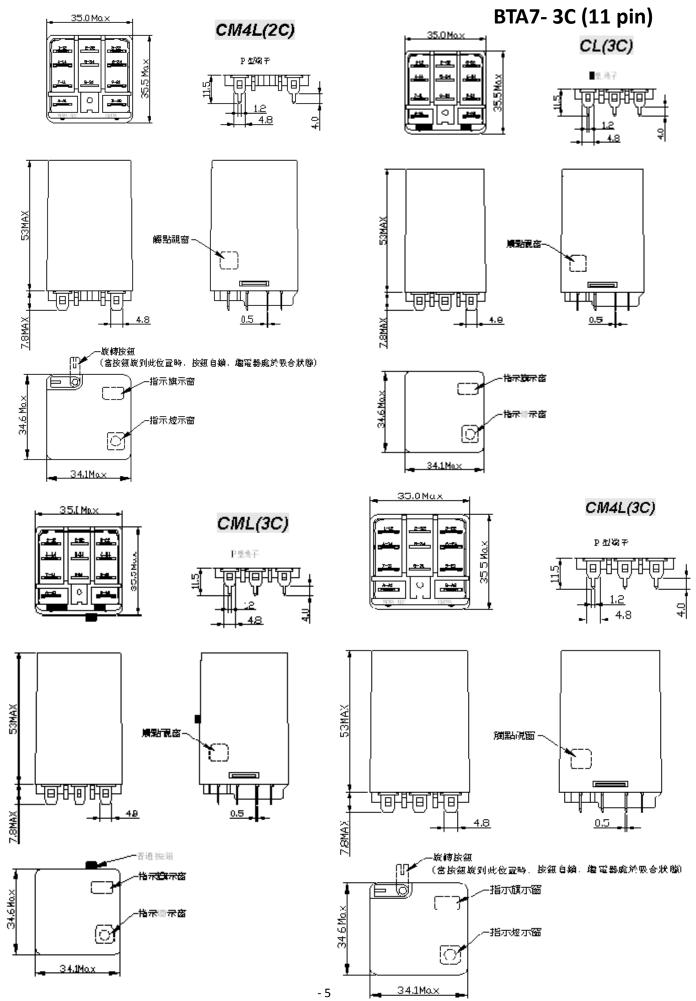
BTA7-2C (8 pin)





BTA7 SERIES

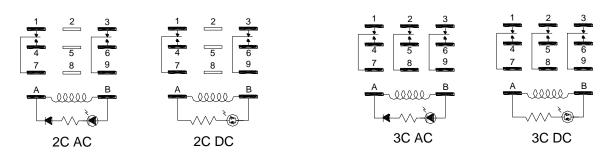
BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS





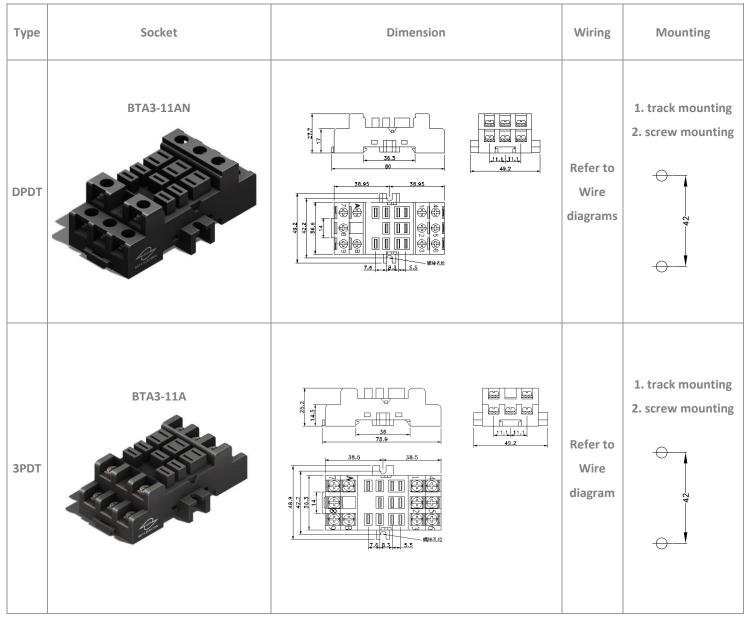


BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS Wiring diagram



ACCESSARIES

SCOKET socket outline drawing, dimensions, wiring, Mounting







BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

HOW TO ORDER

