

# CRINT-C311/UC220-240V

1 pole | Changeover contact



### Main circuit

|                                                  |                    |
|--------------------------------------------------|--------------------|
| Available contact materials                      | AgSnO <sub>2</sub> |
| Recommended minimum contact load                 | 100 mA / 12 V      |
| Maximum contact load AC                          | 16 A / 250 V AC-1  |
| Maximum contact load DC                          | 16 A / 24 V DC-1   |
| Inrush current                                   | 15 A, 2.5 ms       |
| Rated load AC                                    | 4 000 VA           |
| Rated load DC                                    | fig. 3             |
| Rated current                                    | 16 A               |
| Mechanical endurance (cycles)                    | ≥ 10 000 000       |
| Electrical endurance at rated load AC-1 (cycles) | ≥ 10 000           |

### Control circuit

|                           |                                            |
|---------------------------|--------------------------------------------|
| Nominal voltage           | see table product references               |
| Operating voltage range   | 0.8 U <sub>N</sub> ... 1.25 U <sub>N</sub> |
| Pick-up voltage           | ≤ 0.8 U <sub>N</sub>                       |
| Release voltage           | ≥ 0.1 U <sub>N</sub>                       |
| Power consumption AC / DC | 0.9 VA / 0.4 W                             |

### Insulation

|                                |              |
|--------------------------------|--------------|
| Test voltage open contact      | 1 kV / 1 min |
| Test voltage contact / coil    | 5 kV / 1 min |
| Overvoltage category           | III          |
| Insulation resistance at 500 V | ≥ 1 GΩ       |
| Pollution degree               | 3            |

### General data

|                                        |                              |
|----------------------------------------|------------------------------|
| Storage temperature (no ice)           | -40 ... 85 °C                |
| Operation temperature                  | -40 ... 55 °C                |
| Pick-up time                           | ≤ 15 ms                      |
| Release time                           | ≤ 8 ms                       |
| Conductor cross section screw terminal | 0.34 ... 2.5 mm <sup>2</sup> |
| Ingress Protection                     | IP 20                        |
| Mounting                               | TH35 (EN 60715)              |
| Dimensions                             | fig. 4                       |
| Weight                                 | 59 g                         |
| Housing material                       | PA                           |

### Product references

| Description                                               | Type              | 220-240 |
|-----------------------------------------------------------|-------------------|---------|
| Screw terminal                                            | CRINT-C311/UC...V | ✓       |
| «...» List control voltage to complete product references |                   |         |

### Optional Accessories

|             |                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spacer      | CRINT-SEP (BAG 5 PCS)                                                                                                                                      |
| Bridgebar   | BB-00801-BK (BAG 5 PCS), BB-00801-BU (BAG 5 PCS),<br>BB-00801-RD (BAG 5 PCS), BB-02001-BK (BAG 5 PCS),<br>BB-02001-BU (BAG 5 PCS), BB-02001-RD (BAG 5 PCS) |
| Label plate | CRINT-LAB (BAG 4X16 PCS)                                                                                                                                   |

### Replacement relays

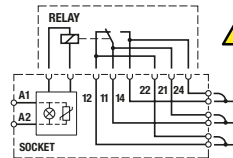
| Description | Type             | 24 | 110 |
|-------------|------------------|----|-----|
| DC          | CRINT-R31/DC...V | ✓  | ✓   |

«...» List control voltage to complete product references  
24 V relay used for 24 V socket, 110 V relay used for 220-240 V socket

If the device is operated with a duty-cycle >50% at 55°C operating temperature and at maximum current (16 A), an air gap of 5 mm between devices is required. The maximum on-time under these conditions is 14 minutes.



fig. 1. Wiring diagram



For usage of the relay up to 16 A, pin 22+12 (NC), pin 21+11 (COM) and pin 24+14 (NO) need to be bridged on the socket terminals to prevent overheating. Each contact on this relay is connected to two pins each.

fig. 2. AC / DC voltage endurance

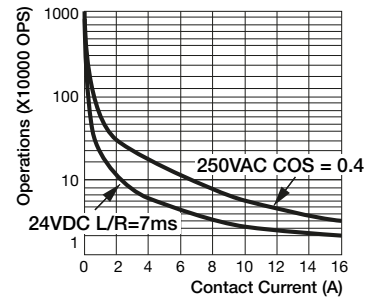


fig. 3. DC load limit curve

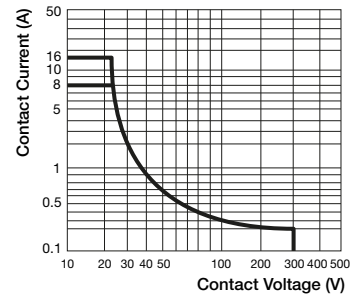
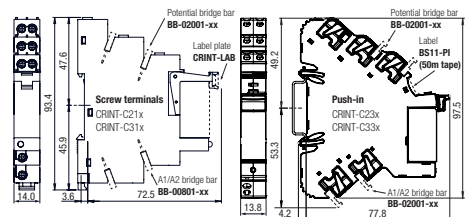


fig. 4. Dimensions (mm)



### Technical approvals, conformities

Standards IEC/EN 61810-1

Approvals CE UK CA c RU us EAC