

**Plug-in mount**

**10 A General purpose relay**

- 2 & 3 pole changeover contacts
- Cadmium Free contacts (preferred version)
- AC coils & DC coils
- UL Listing (certain relay/socket combinations)
- Contact material options
- Lockable test button with mechanical flag indicator (preferred version)
- 90 series sockets
- Coil EMC suppression
- Timer accessories 86 series
- European Patent

**60.12**

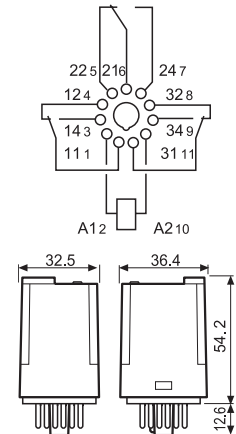
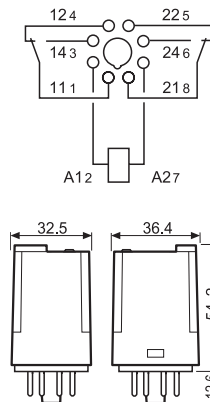


- 2 pole, 10 A power contacts
- 8 pin plug-in

**60.13**



- 3 pole, 10 A power contacts
- 11 pin plug-in



FOR UL RATINGS SEE:

"General technical information" page V

**Contact specification**

|   |           |             |             |
|---|-----------|-------------|-------------|
| Contact configuration                   |           | 2 CO (DPDT) | 3 CO (3PDT) |
| Rated current/Maximum peak current      | A         | 10/20       | 10/20       |
| Rated voltage/Maximum switching voltage | V AC      | 250/400     | 250/400     |
| Rated load AC1                          | VA        | 2500        | 2500        |
| Rated load AC15 (230 V AC)              | VA        | 500         | 500         |
| Single phase motor rating (230 V AC)    | kW        | 0.37        | 0.37        |
| Breaking capacity DC1: 30/110/220 V     | A         | 10/0.4/0.15 | 10/0.4/0.15 |
| Minimum switching load                  | mW (V/mA) | 500 (10/5)  | 500 (10/5)  |
| Standard contact material               |           | AgNi        | AgNi        |

**Coil specification**

|                           |                 |   |
|---------------------------|-----------------|---|
| Nominal voltage ( $U_N$ ) | V AC (50/60 Hz) | 6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240 - 400 |
|                           | V DC            | 6 - 12 - 24 - 48 - 60 - 110 - 125 - 220             |
| Rated power AC/DC         | VA (50 Hz)/W    | 2.2/1.3   |
| Operating range           | AC              | $(0.8 \dots 1.1) U_N$                               |
|                           | DC              | $(0.8 \dots 1.1) U_N$                               |
| Holding voltage           | AC/DC           | $0.8 U_N / 0.5 U_N$                                 |
| Must drop-out voltage     | AC/DC           | $0.2 U_N / 0.1 U_N$                                 |

**Technical data**

|   |              |                                 |                                 |
|---|--------------|---------------------------------|---------------------------------|
| Mechanical life AC/DC                                 | cycles       | $20 \cdot 10^6 / 50 \cdot 10^6$ | $20 \cdot 10^6 / 50 \cdot 10^6$ |
| Electrical life at rated load AC1                     | cycles       | $200 \cdot 10^3$                | $200 \cdot 10^3$                |
| Operate/release time                                  | ms           | 11/4                            | 11/4                            |
| Insulation between coil and contacts (1.2/50 $\mu$ s) | kV           | 4                               | 3.6                             |
| Dielectric strength between open contacts             | V AC         | 1000                            | 1000                            |
| Ambient temperature range                             | $^{\circ}$ C | -40...+70                       | -40...+70                       |
| Environmental protection                              |              | RT I                            | RT I                            |

**Approvals** (according to type)

