

## Features

### Plug-in mount

### 10 A General purpose relay

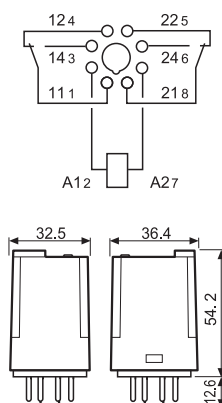
- 2 & 3 pole changeover contacts
- Cadmium Free contacts (preferred version)
- AC coils & DC coils
- UL Listing (certain relay/socket combinations)
- Contact material options
- Lockable test button with mechanical flag indicator (preferred version)
- 90 series sockets
- Coil EMC suppression
- Timer accessories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

FOR UL RATINGS SEE:  
"General technical information" page V

60.12



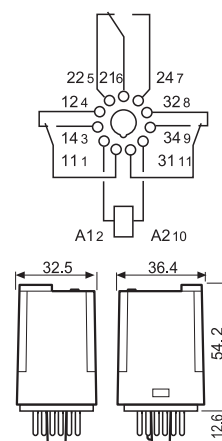
- 2 pole, 10 A power contacts
- 8 pin plug-in



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



| 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              | 2,500                                               | 2,500                                      |
| 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 <sub>N</sub> )                | 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                                             | 2.2/1.3                                    |
| Operating range                                  | AC              | (0.8...1.1)U <sub>N</sub>                           | (0.8...1.1)U <sub>N</sub>                  |
|                                                  | DC              | (0.8...1.1)U <sub>N</sub>                           | (0.8...1.1)U <sub>N</sub>                  |
| Holding voltage                                  | AC/DC           | 0.8 U <sub>N</sub> /0.5 U <sub>N</sub>              | 0.8 U <sub>N</sub> /0.5 U <sub>N</sub>     |
| Must drop-out voltage                            | AC/DC           | 0.2 U <sub>N</sub> /0.1 U <sub>N</sub>              | 0.2 U <sub>N</sub> /0.1 U <sub>N</sub>     |
| Technical data                                   |                 |                                                     |                                            |
| Mechanical life AC/DC                            | cycles          | 20 · 10 <sup>6</sup> /50 · 10 <sup>6</sup>          | 20 · 10 <sup>6</sup> /50 · 10 <sup>6</sup> |
| Electrical life at rated load AC1                | cycles          | 200 · 10 <sup>3</sup>                               | 200 · 10 <sup>3</sup>                      |
| Operate/release time                             | ms              | 11/4                                                | 11/4                                       |
| Insulation between coil and contacts (1.2/50 µs) | kV              | 4                                                   | 3.6                                        |
| Dielectric strength between open contacts        | V AC            | 1,000                                               | 1,000                                      |
| Ambient temperature range                        | °C              | -40...+70                                           | -40...+70                                  |
| Environmental protection                         |                 | RT I                                                | RT I                                       |
| Approvals (according to type)                    |                 |                                                     |                                            |

## 60 Series - General purpose relays 6 - 10 A

## Features

## Plug-in mount - 6 A

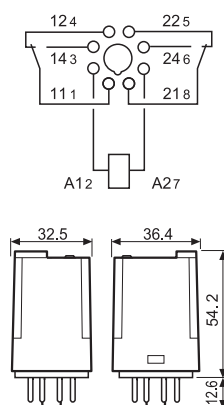
## Bifurcated contacts for low level switching

- 2 & 3 pole changeover contacts
- Cadmium Free contacts (Gold plated Silver Nickel)
- AC coils & DC coils
- Lockable test button with mechanical flag indicator (preferred version)
- 90 series sockets
- Coil EMC suppression
- Timer accessories 86 series
- European Patent

60.12 - 5200



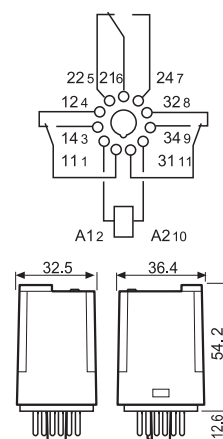
- 2 pole, 6 A bifurcated contacts
- 8 pin plug-in



60.13 - 5200



- 3 pole, 6 A bifurcated 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         | 6/10                          | 6/10                          |
| Rated voltage/Maximum switching voltage | V AC      | 250/400                       | 250/400                       |
| Rated load AC1                          | VA        | 1,500                         | 1,500                         |
| Rated load AC15 (230 V AC)              | VA        | 250                           | 250                           |
| Single phase motor rating (230 V AC)    | kW        | 0.185                         | 0.185                         |
| Breaking capacity DC1: 30/110/220 V     | A         | 6/0.3/0.12                    | 6/0.3/0.12                    |
| Minimum switching load                  | mW (V/mA) | 50 (5/5)                      | 50 (5/5)                      |
| Standard contact material               |           | AgNi + Au bifurcated contacts | AgNi + Au bifurcated contacts |

## 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                                             | 2.2/1.3               |
| Operating range           | AC              | $(0.8 \dots 1.1) U_N$                               | $(0.8 \dots 1.1) U_N$ |
|                           | DC              | $(0.8 \dots 1.1) U_N$                               | $(0.8 \dots 1.1) U_N$ |
| Holding voltage           | AC/DC           | $0.8 U_N / 0.5 U_N$                                 | $0.8 U_N / 0.5 U_N$   |
| Must drop-out voltage     | AC/DC           | $0.2 U_N / 0.1 U_N$                                 | $0.2 U_N / 0.1 U_N$   |

## 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 | $250 \cdot 10^3$                | $250 \cdot 10^3$                |
| 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   | 1,000                           | 1,000                           |
| Ambient temperature range                             | °C     | -40...+70                       | -40...+70                       |
| Environmental protection                              |        | RT I                            | RT I                            |

## Approvals (according to type)

