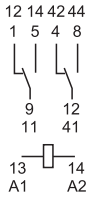
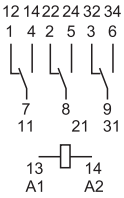
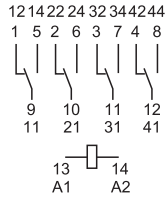
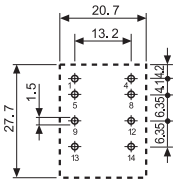
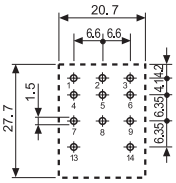
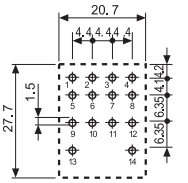
**General purpose relays**
**For printed circuit mounting**

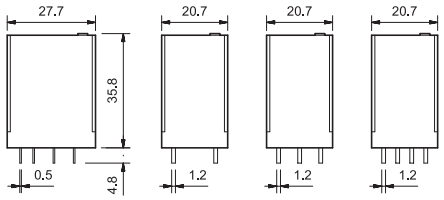
**Type 55.12**
- 2 CO 10 A

**Type 55.13**
- 3 CO 10 A

**Type 55.14**
- 4 CO 7 A

- AC & DC coils
- Cadmium Free contacts
- Contact material options
- RT III (wash tight) option available

| | 55.12 | 55.13 | 55.14 |
|---|---|---|---|
| | | | |
| | • 2 CO 10 A<br>• PCB mount | • 3 CO 10 A<br>• PCB mount | • 4 CO 7 A<br>• PCB mount |
| |  |  |  |
| |  |  |  |
| | Copper side view | Copper side view | Copper side view |




55.12 55.13 55.14

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

| | | 55.12 | 55.13 | 55.14 |
|---|---|---|---|---|
| **Contact specification** | | | | |
| Contact configuration | | 2 CO (DPDT) | 3 CO (3PDT) | 4 CO (4PDT) |
| Rated current/Maximum peak current | A | 10/20 | 10/20 | 7/15 |
| Rated voltage/ Maximum switching voltage | V AC | 250/400 | 250/400 | 250/250 |
| Rated load AC1 | VA | 2500 | 2500 | 1750 |
| Rated load AC15 (230 V AC) | VA | 500 | 500 | 350 |
| Single phase motor rating (230 V AC) | kW | 0.37 | 0.37 | 0.125 |
| Breaking capacity DC1: 30/110/220 V | A | 10/0.25/0.12 | 10/0.25/0.12 | 7/0.25/0.12 |
| Minimum switching load | mW (V/mA) | 300 (5/5) | 300 (5/5) | 300 (5/5) |
| Standard contact material | | AgNi | AgNi | AgNi |
| **Coil specification** | | | | |
| Nominal voltage ($U_N$) | V AC (50/60 Hz) | 6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240 | | |
| | V DC | 6 - 12 - 24 - 48 - 60 - 110 -125 - 220 | | |
| Rated power AC/DC | VA (50 Hz)/W | 1.5/1 | 1.5/1 | 1.5/1 |
| Operating range | AC | $(0.8…1.1)U_N$ | $(0.8…1.1)U_N$ | $(0.8…1.1)U_N$ |
| | DC | $(0.8…1.1)U_N$ | $(0.8…1.1)U_N$ | $(0.8…1.1)U_N$ |
| Holding voltage | AC/DC | 0.8 $U_N$ / 0.5 $U_N$ | 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 $U_N$ | 0.2 $U_N$ / 0.1 $U_N$ |
| **Technical data** | | | | |
| Mechanical life AC/DC | cycles | $20 \cdot 10^6$ / $50 \cdot 10^6$ | $20 \cdot 10^6$ / $50 \cdot 10^6$ | $20 \cdot 10^6$ / $50 \cdot 10^6$ |
| Electrical life at rated load AC1 | cycles | $200 \cdot 10^3$ | $200 \cdot 10^3$ | $150 \cdot 10^3$ |
| Operate/release time | ms | 10/5 | 10/5 | 11/3 |
| Insulation between coil and contacts (1.2/50 µs) | kV | 4 | 4 | 4 |
| Dielectric strength between open contacts | V AC | 1000 | 1000 | 1000 |
| Ambient temperature range | °C | –40…+85 | –40…+85 | –40…+85 |
| Environmental protection | | RT I | RT I | RT I |
| **Approvals** (according to type) | | | | |

A

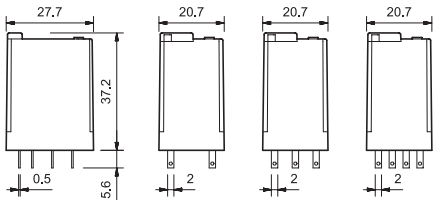
**General purpose relays**
**For socket mounting**

**Type 55.32**
- 2 CO 10 A

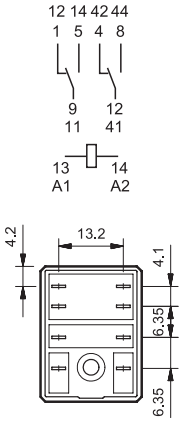
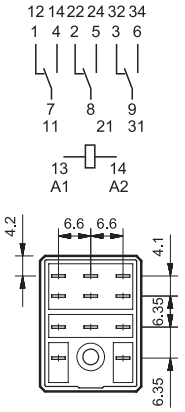
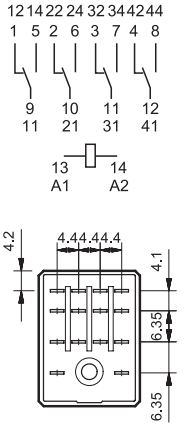
**Type 55.33**
- 3 CO 10 A

**Type 55.34**
- 4 CO 7 A

- AC & DC coils
- Lockable test button and mechanical flag indicator as standard on 2 & 4 pole types
- Integral LED and coil suppression options
- 94 series sockets for PCB or 35 mm rail mounting (EN 60715) with Screw, Screwless or Push-in terminals
- Coil Indication and EMC suppression modules 99 series and Timer module 86.30 options
- Optional alternative mounting adaptors
- UL Listing (certain relay/socket combinations)
- Cadmium Free contacts
- Contact material options
- European Patent




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

| | 55.32 | 55.33 | 55.34 |
|---|---|---|---|
| | | | |
| | • 2 CO 10 A<br>• Plug-in 94 series sockets | • 3 CO 10 A<br>• Plug-in 94 series sockets | • 4 CO 7 A<br>• Plug-in 94 series sockets |
| |  |  |  |
| **Contact specification** | | | |
| Contact configuration | 2 CO (DPDT) | 3 CO (3PDT) | 4 CO (4PDT) |
| Rated current/Maximum peak current A | 10/20 | 10/20 | 7/15 |
| Rated voltage/ Maximum switching voltage V AC | 250/400 | 250/400 | 250/250 |
| Rated load AC1 VA | 2500 | 2500 | 1750 |
| Rated load AC15 (230 V AC) VA | 500 | 500 | 350 |
| Single phase motor rating (230 V AC) kW | 0.37 | 0.37 | 0.125 |
| Breaking capacity DC1: 30/110/220 V A | 10/0.25/0.12 | 10/0.25/0.12 | 7/0.25/0.12 |
| Minimum switching load mW (V/mA) | 300 (5/5) | 300 (5/5) | 300 (5/5) |
| Standard contact material | AgNi | AgNi | AgNi |
| **Coil specification** | | | |
| Nominal voltage ($U_N$) V AC (50/60 Hz) | 6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240 | | |
| V DC | 6 - 12 - 24 - 48 - 60 - 110 -125 - 220 | | |
| Rated power AC/DC VA (50 Hz)/W | 1.5/1 | 1.5/1 | 1.5/1 |
| Operating range AC | (0.8…1.1)$U_N$ | (0.8…1.1)$U_N$ | (0.8…1.1)$U_N$ |
| DC | (0.8…1.1)$U_N$ | (0.8…1.1)$U_N$ | (0.8…1.1)$U_N$ |
| Holding voltage AC/DC | 0.8 $U_N$ / 0.5 $U_N$ | 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 $U_N$ | 0.2 $U_N$ / 0.1 $U_N$ |
| **Technical data** | | | |
| Mechanical life AC/DC cycles | $20 \cdot 10^6$ / $50 \cdot 10^6$ | $20 \cdot 10^6$ / $50 \cdot 10^6$ | $20 \cdot 10^6$ / $50 \cdot 10^6$ |
| Electrical life at rated load AC1 cycles | $200 \cdot 10^3$ | $200 \cdot 10^3$ | $150 \cdot 10^3$ |
| Operate/release time ms | 10/5 | 10/5 | 11/3 |
| Insulation between coil and contacts (1.2/50 µs) kV | 4 | 4 | 4 |
| Dielectric strength between open contacts V AC | 1000 | 1000 | 1000 |
| Ambient temperature range °C | –40…+85 | –40…+85 | –40…+85 |
| Environmental protection | RT I | RT I | RT I |
| **Approvals** (according to type) | | | |

X-2016, www.findernet.com