## Features

**Printed circuit mount**
**16 A Power relay**

- 2 & 3 Pole changeover contacts or NO (≥ 3 mm contact gap)
- AC coils & DC coils
- Reinforced insulation between coil and contacts according to EN 60335-1, with 6 mm clearance & 8 mm creepage distance
- SELV coil-contact separator option
- Cadmium Free contact material options

### 62.22 / 62.23

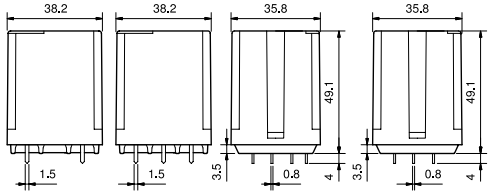


- 2 & 3 pole changeover contact
- PCB mount

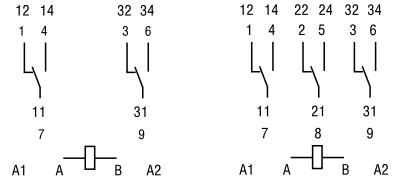
### 62.22-0300 / 62.23-0300

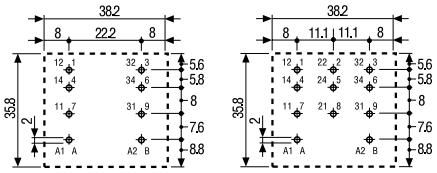


- 2 & 3 pole normally open contact (≥ 3 mm contact gap)
- PCB mount



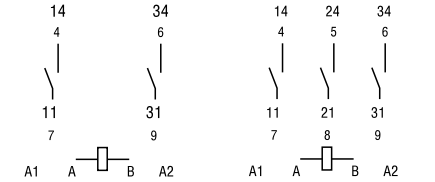

62.22 62.23 62.2x 62.2x-0300
62.22-0300 62.23-0300

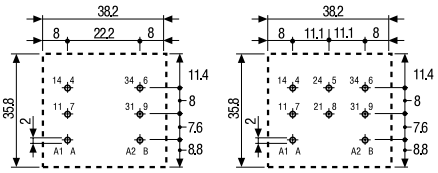



62.22
Copper side view

62.23
Copper side view




62.22 - 0300
Copper side view

62.23 - 0300
Copper side view

* Distance between contacts ≥ 3 mm (EN 60730-1).

** With the $AgSnO_2$ material the maximum peak current is 120 A - 5 ms (NO contact).

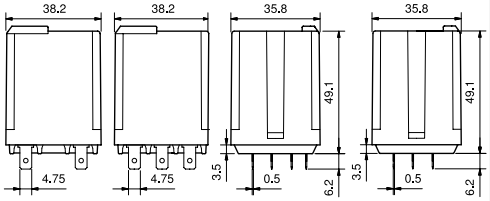
*For UL Horsepower and Pilot Duty ratings See "General technical information" page* V

| | | | | | |
|---|---|---|---|---|---|
| **Contact specification** | | | | | |
| Contact configuration | | 2 CO (DPDT) | 3 CO (3PDT) | 2 NO (DPST-NO), ≥ 3 mm* | 3 NO (3PST-NO), ≥ 3 mm* |
| Rated current/Maximum peak current | A | 16/30** | | 16/30** | |
| Rated voltage/Maximum switching voltage | V AC | 250/400 | | 250/400 | |
| Rated load AC1 | VA | 4,000 | | 4,000 | |
| Rated load AC15 (230 V AC) | VA | 750 | | 750 | |
| Motor rating (230/400 V AC) | kW | 0.8/— | 0.8/1.5 | 0.8/— | 0.8/1.5 |
| Breaking capacity DC1: 30/110/220 V | A | 16/0.6/0.4 | | 16/1.1/0.7 | |
| Minimum switching load | mW (V/mA) | 1,000 (10/10) | | 1,000 (10/10) | |
| Standard contact material | | AgCdO | | AgCdO | |
| **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 | | 3/3 | |
| Operating range | AC | $(0.8...1.1)U_N$ | | $(0.85...1.1)U_N$ | |
| | DC | $(0.8...1.1)U_N$ | | $(0.85...1.1)U_N$ | |
| Holding voltage | AC/DC | 0.8 $U_N$/0.6 $U_N$ | | 0.8 $U_N$/0.6 $U_N$ | |
| 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 | $10 \cdot 10^6/30 \cdot 10^6$ | | $10 \cdot 10^6/30 \cdot 10^6$ | |
| Electrical life at rated load AC1 | cycles | $100 \cdot 10^3$ | | $100 \cdot 10^3$ | |
| Operate/release time | ms | 10/10 | | 20/4 | |
| Insulation between coil and contacts (1.2/50 µs) | kV | 6 | | 6 | |
| Dielectric strength between open contacts | V AC | 1,500 | | 2,500 | |
| Ambient temperature range | °C | –40...+70 | | –40...+50 | |
| Environmental protection | | RT I | | RT I | |
| **Approvals** (according to type) | | CE SP PG Lloyd's Register RINA cULus VDE | | | |

## Features

**Plug-in mount/Faston 187**
**16 A Power relay**

- Plug-in (92 series sockets) or Faston 187 (4.8x0.5 mm) with optional mounting adaptors
- 2 & 3 Pole changeover contacts or NO (≥ 3 mm contact gap)
- AC coils & DC coils
- UL Listing (certain relay/socket combinations)
- LED, mechanical indicator & test button options
- Reinforced insulation between coil and contacts according to EN 60335-1, with 6 mm clearance & 8 mm creepage distance
- SELV coil-contact separator option
- Cadmium Free contact material options
- Sockets and accessories




62.32 62.33 62.32-0300 62.33-0300 | 62.3x | 62.3x-0300

* Distance between contacts ≥ 3 mm (EN 60730-1).

** With the $AgSnO_2$ material the maximum peak current is 120 A - 5 ms (NO contact).

*For UL Horsepower and Pilot Duty ratings See "General technical information" page V*

### 62.32 / 62.33

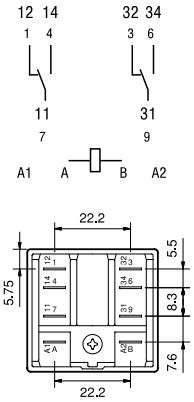


- 2 & 3 pole changeover contact
- Plug-in / Faston 187

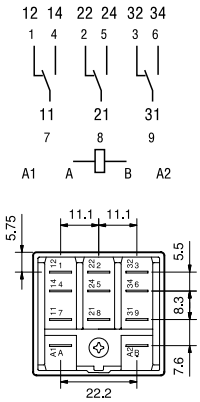
### 62.32-0300 / 62.33-0300



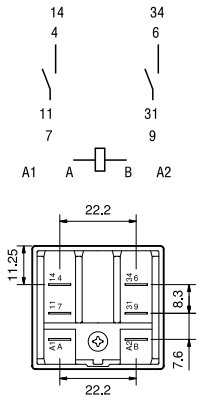
- 2 & 3 pole normally open contact (≥ 3 mm contact gap)
- Plug-in / Faston 187



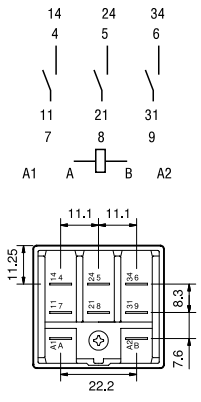

62.32




62.33




62.32-0300



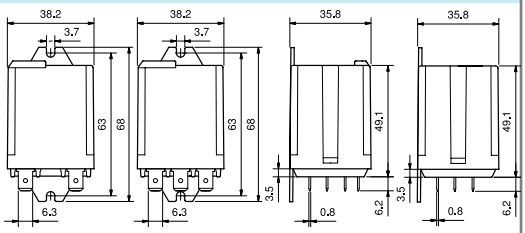

62.33-0300

| | | | | | |
|---|---|---|---|---|---|
| **Contact specification** | | | | | |
| Contact configuration | | 2 CO (DPDT) | 3 CO (3PDT) | 2 NO (DPST-NO), ≥ 3 mm* | 3 NO (3PST-NO), ≥ 3 mm* |
| Rated current/Maximum peak current | A | 16/30** | | 16/30** | |
| Rated voltage/Maximum switching voltage | V AC | 250/400 | | 250/400 | |
| Rated load AC1 | VA | 4,000 | | 4,000 | |
| Rated load AC15 (230 V AC) | VA | 750 | | 750 | |
| Motor rating (230/400 V AC) | kW | 0.8/— | 0.8/1.5 | 0.8/— | 0.8/1.5 |
| Breaking capacity DC1: 30/110/220 V | A | 16/0.6/0.4 | | 16/1.1/0.7 | |
| Minimum switching load | mW (V/mA) | 1,000 (10/10) | | 1,000 (10/10) | |
| Standard contact material | | AgCdO | | AgCdO | |
| **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 | | 3/3 | |
| Operating range | AC | $(0.8...1.1)U_N$ | | $(0.85...1.1)U_N$ | |
| | DC | $(0.8...1.1)U_N$ | | $(0.85...1.1)U_N$ | |
| Holding voltage | AC/DC | $0.8\ U_N/0.6\ U_N$ | | $0.8\ U_N/0.6\ U_N$ | |
| 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 | $10 \cdot 10^6/30 \cdot 10^6$ | | $10 \cdot 10^6/30 \cdot 10^6$ | |
| Electrical life at rated load AC1 | cycles | $100 \cdot 10^3$ | | $100 \cdot 10^3$ | |
| Operate/release time | ms | 10/10 | | 20/4 | |
| Insulation between coil and contacts (1.2/50 µs) | kV | 6 | | 6 | |
| Dielectric strength between open contacts | V AC | 1,500 | | 2,500 | |
| Ambient temperature range | °C | –40...+70 | | –40...+50 | |
| Environmental protection | | RT I | | RT I | |
| **Approvals** (according to type) | | | | | |

# Features

**Flange mount/Faston 250**
**16 A Power relay**

- Faston 250 (6.3x0.8 mm) termination Flange or optional mounting adaptors
- 2 & 3 Pole changeover contacts or NO (≥ 3 mm contact gap)
- AC coils & DC coils
- LED, mechanical indicator & test button options
- Reinforced insulation between coil and contacts according to EN 60335-1, with 6 mm clearance & 8 mm creepage distance
- SELV coil-contact separator option
- Cadmium Free contact material options




62.82 62.83 62.8x 62.8x-0300
62.82-0300 62.83-0300

* Distance between contacts ≥ 3 mm (EN 60730-1).

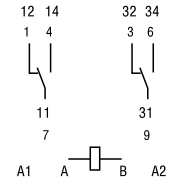
** With the $AgSnO_2$ material the maximum peak current is 120 A - 5 ms (NO contact).

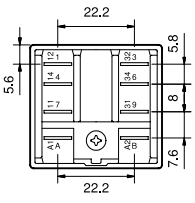
*For UL Horsepower and Pilot Duty ratings See "General technical information" page V*

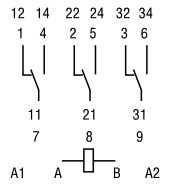
## 62.82 / 62.83

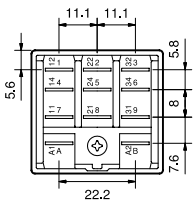


- 2 & 3 pole changeover contact
- Flange mount / Faston 250



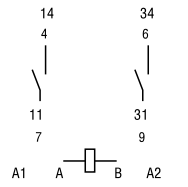



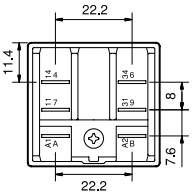

62.82 62.83

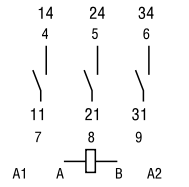
## 62.82-0300 / 62.83-0300

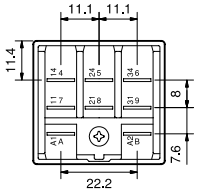


- 2 & 3 pole normally open contact (≥ 3 mm contact gap)
- Flange mount / Faston 250




62.82-0300 62.83-0300

| | | | | | |
|---|---|---|---|---|---|
| **Contact specification** | | | | | |
| Contact configuration | | 2 CO (DPDT) | 3 CO (3PDT) | 2 NO (DPST-NO), ≥ 3 mm* | 3 NO (3PST-NO), ≥ 3 mm* |
| Rated current/Maximum peak current | A | 16/30** | | 16/30** | |
| Rated voltage/Maximum switching voltage | V AC | 250/400 | | 250/400 | |
| Rated load AC1 | VA | 4,000 | | 4,000 | |
| Rated load AC15 (230 V AC) | VA | 750 | | 750 | |
| Motor rating (230/400 V AC) | kW | 0.8/— | 0.8/1.5 | 0.8/— | 0.8/1.5 |
| Breaking capacity DC1: 30/110/220 V | A | 16/0.6/0.4 | | 16/1.1/0.7 | |
| Minimum switching load | mW (V/mA) | 1,000 (10/10) | | 1,000 (10/10) | |
| Standard contact material | | AgCdO | | AgCdO | |
| **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 | | 3/3 | |
| Operating range | AC | $(0.8...1.1)U_N$ | | $(0.85...1.1)U_N$ | |
| | DC | $(0.8...1.1)U_N$ | | $(0.85...1.1)U_N$ | |
| Holding voltage | AC/DC | 0.8 $U_N$/0.6 $U_N$ | | 0.8 $U_N$/0.6 $U_N$ | |
| 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 | $10 \cdot 10^6/30 \cdot 10^6$ | | $10 \cdot 10^6/30 \cdot 10^6$ | |
| Electrical life at rated load AC1 | cycles | $100 \cdot 10^3$ | | $100 \cdot 10^3$ | |
| Operate/release time | ms | 10/10 | | 20/4 | |
| Insulation between coil and contacts (1.2/50 µs) | kV | 6 | | 6 | |
| Dielectric strength between open contacts | V AC | 1,500 | | 2,500 | |
| Ambient temperature range | °C | –40...+70 | | –40...+50 | |
| Environmental protection | | RT I | | RT I | |
| **Approvals** (according to type) | | | | | |

## Ordering information

Example: 62 series power relay + Faston 250 (6.3x0.8 mm), rear flange mount, 2 NO (DPST-NO), 12 V DC coil.

| 6 2 | . | 8 | 2 | . | 9 | . | 0 1 2 | . | A: 0 | B: 3 | C: 0 | D: 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Series**

**Type**
2 = PCB
3 = Plug-in
8 = Faston 250 (6.3x0.8 mm) with rear flange mount

**No. of poles**
2 = 2 pole
3 = 3 pole

**Coil version**
8 = AC (50/60 Hz)
9 = DC

**Coil voltage**
See coil specifications

**A: Contact material**
0 = Standard AgCdO
4 = $AgSnO_2$

**B: Contact circuit**
0 = CO (nPDT)
3 = NO (nPST), ≥ 3 mm contact gap
5 = CO (nPDT) + additional physical separator between coil and contacts (for SELV applications)
6 = NO (nPST), ≥ 3 mm contact gap + additional physical separator between coil and contacts (for SELV applications)

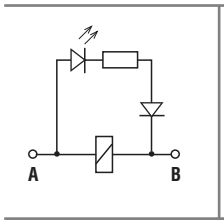
**C: Options**
0 = None
2 = Mechanical indicator
3 = LED (AC)
4 = Lockable test button + mechanical indicator
5* = Lockable test button + LED (AC)
54* = Lockable test button + LED (AC) + mechanical indicator
6* = LED + diode (DC, polarity positive to pin A/A1)
7* = Lockable test button + LED + diode (DC, polarity positive to pin A/A1)
74* = Lockable test button + LED + diode (DC, polarity positive to pin A/A1) + mechanical indicator
* Options not available for 220 V DC and 400 V AC versions.

**D: Special versions**
0 = Standard
6 = Rear flange mount
9 = Type 62.82/83 without rear flange mount

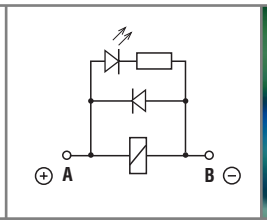
**Selecting features and options: only combinations in the same row are possible.**
Preferred selections for best avaliability are shown in **bold.**

| Type | Coil version | A | B | C | D |
|---|---|---|---|---|---|
| 62.22/23 | AC-DC | **0** - 4 | **0** - 3 - 5 - 6 | **0** | **0** |
| 62.32/33 | AC-DC | 0 - 4 | 0 - 3 - 5 - 6 | 0 | 0 - 6 |
| | AC-DC | **0** - 4 | **0** - 5 | 2 - **4** | **0** - 6 |
| | AC | **0** - 4 | **0** | 2 - 3 - **4** - 5 | **0** - 6 |
| | AC | 0 - 4 | 0 - 3 | 3 | 0 - 6 |
| | AC | 0 - 4 | 0 | 54 | / |
| | DC | **0** - 4 | **0** | **4** - 6 - 7 | **0** - 6 |
| | DC | 0 - 4 | 0 - 3 | 6 | 0 - 6 |
| | DC | 0 - 4 | 0 | 74 | / |
| 62.82/83 | AC-DC | **0** - 4 | **0** - 3 - 5 - 6 | **0** | **0** - 9 |
| | AC-DC | 0 - 4 | 0 - 5 | 2 - 4 | 0 |
| | AC | 0 - 4 | 0 | 2 - 3 - 4 - 5 | 0 |
| | AC | 0 - 4 | 0 - 3 | 3 | 0 |
| | DC | 0 - 4 | 0 | 4 - 6 - 7 | 0 |
| | DC | 0 - 4 | 0 - 3 | 6 | 0 |

### Descriptions: Options and Special versions



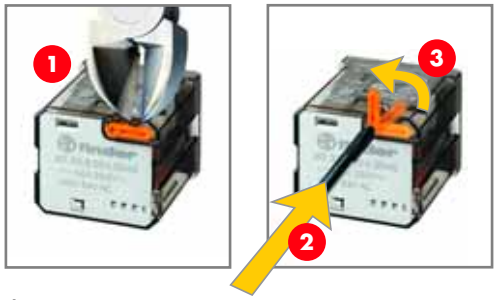

**C: Option 3, 5, 54**
LED (AC)




**C: Option 6, 7, 74**
LED + diode (DC, polarity positive to pin A/A1)



**B: Contact circuit 5, 6**
Additional physical separator between coil and contacts (for SELV applications)




### Lockable test button and mechanical flag indicator (0040, 0050, 0054, 0070, 0074)

The dual-purpose Finder test button can be used in two ways:
Case 1) The plastic pip (located directly above the test button) remains intact. In this case, when the test button is pushed, the contacts operate. When the test button is released the contacts return to their former state.

Case 2) The plastic pip is broken-off (using an appropriate cutting tool). In this case, (in addition to the above function), when the test button is pushed and rotated, the contacts are latched in the operating state, and remain so until the test button is rotated back to its former position.

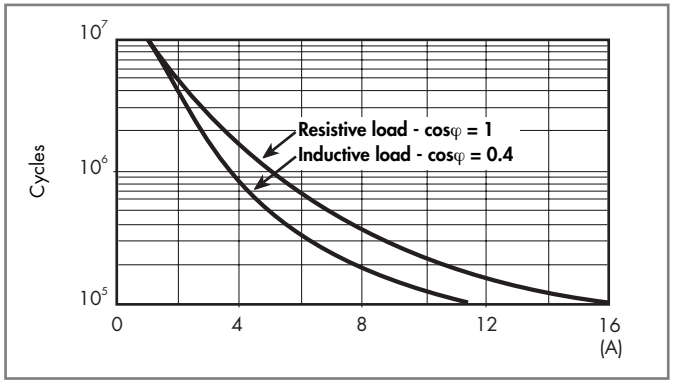
In both cases ensure that the test button actuation is swift and decisive.

## Technical data

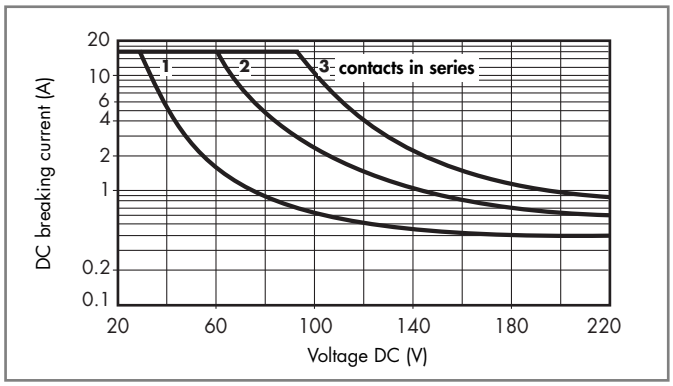
| | | | | | |
|---|---|---|---|---|---|
| **Insulation according to EN 61810-1:2004** | | | | | |
| | | **2 CO - 3 CO** | | **2 NO - 3 NO** | |
| Nominal voltage of supply system | V AC | 230/400 | | 230/400 | |
| Rated insulation voltage | V AC | 400 | | 400 | |
| Pollution degree | | 3 | | 3 | |
| **Insulation between coil and contact set** | | | | | |
| Type of insulation | | Reinforced | | Reinforced | |
| Overvoltage category | | III | | III | |
| Rated impulse voltage | kV (1.2/50 µs) | 6 | | 6 | |
| Dielectric strength | V AC | 4,000 | | 4,000 | |
| **Insulation between adjacent contacts** | | | | | |
| Type of insulation | | Basic | | Basic | |
| Overvoltage category | | III | | III | |
| Rated impulse voltage | kV (1.2/50 µs) | 4 | | 4 | |
| Dielectric strength | V AC | 2,500 | | 2,500 | |
| **Insulation between open contacts** | | | | | |
| Type of disconnection | | Micro-disconnection | | Full-disconnection | |
| Overvoltage category | | — | | III | |
| Rated impulse voltage | kV (1.2/50 µs) | — | | 4 | |
| Dielectric strength | V AC/kV (1.2/50 µs) | 1,500/2 | | 2,500/4 | |
| **Conducted disturbance immunity** | | | | | |
| Burst (5...50)ns, 5 kHz, on A1 - A2 | | EN 61000-4-4 | | level 4 (4 kV) | |
| Surge (1.2/50 µs) on A1 - A2 (differential mode) | | EN 61000-4-5 | | level 4 (4 kV) | |
| **Other data** | | | | | |
| Bounce time: NO/NC | ms | 3/6 (changeover) | | 3/— (normally open) | |
| Vibration resistance (10...150)Hz: NO/NC | g | 20/8 | | | |
| Shock resistance | g | 15 | | | |
| Power lost to the environment | | **2 pole (CO)** | **3 pole (CO)** | **2 pole (NO)** | **3 pole (NO)** |
| without contact current | W | 1.3 | 1.3 | 3 | 3 |
| with rated current | W | 3.3 | 4.3 | 5 | 6 |
| Recommended distance between relays mounted on PCB | mm | ≥ 5 | | | |

## Contact specification

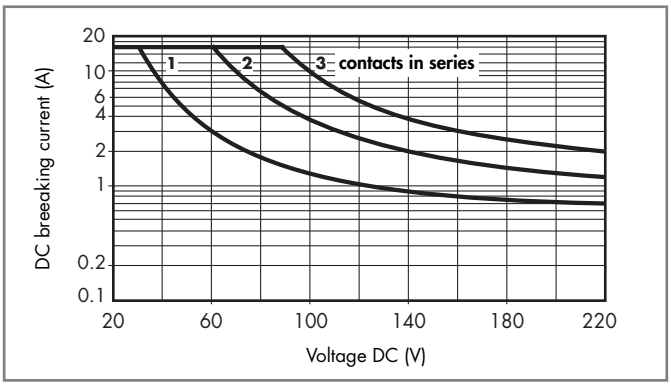
**F 62 - Electrical life (AC) v contact current**




**H 62 - Maximum DC1 breaking capacity**
Changeover contacts




**H 62 - Maximum DC1 breaking capacity**
Normally open contacts




- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ $100 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
  Note: the release time of the load will be increased.

## Coil specifications

### DC version data

| Nominal voltage $U_N$ | Coil code | Operating range $U_{min}$ | Operating range $U_{max}$ | Resistance R | Rated coil consumption I at $U_N$ |
|---|---|---|---|---|---|
| V | | V | V | Ω | mA |
| 6 | **9**.006 | 4.8 | 6.6 | 28 | 214 |
| 12 | **9**.012 | 9.6 | 13.2 | 110 | 109 |
| 24 | **9**.024 | 19.2 | 26.4 | 445 | 54 |
| 48 | **9**.048 | 38.4 | 52.8 | 1,770 | 27 |
| 60 | **9**.060 | 48 | 66 | 2,760 | 21.7 |
| 110 | **9**.110 | 88 | 121 | 9,420 | 11.7 |
| 125 | **9**.125 | 100 | 138 | 12,000 | 10.4 |
| 220 | **9**.220 | 176 | 242 | 37,300 | 5.8 |

### AC version data

| Nominal voltage $U_N$ | Coil code | Operating range $U_{min}$ | Operating range $U_{max}$ | Resistance R | Rated coil consumption I at $U_N$ (50Hz) |
|---|---|---|---|---|---|
| V | | V | V | Ω | mA |
| 6 | **8**.006 | 4.8 | 6.6 | 4.6 | 367 |
| 12 | **8**.012 | 9.6 | 13.2 | 19 | 183 |
| 24 | **8**.024 | 19.2 | 26.4 | 74 | 90 |
| 48 | **8**.048 | 38.4 | 52.8 | 290 | 47 |
| 60 | **8**.060 | 48 | 66 | 450 | 37 |
| 110 | **8**.110 | 88 | 121 | 1,600 | 20 |
| 120 | **8**.120 | 96 | 132 | 1,940 | 18.6 |
| 230 | **8**.230 | 184 | 253 | 7,250 | 10.5 |
| 240 | **8**.240 | 192 | 264 | 8,500 | 9.2 |
| 400 | **8**.400 | 320 | 440 | 19,800 | 6 |

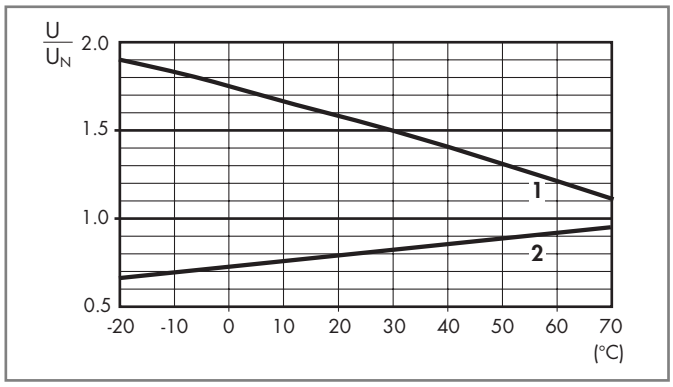
### DC (NO/nPST-NO) version data - ≥ 3 mm

| Nominal voltage $U_N$ | Coil code | Operating range $U_{min}$ | Operating range $U_{max}$ | Resistance R | Rated coil consumption I at $U_N$ |
|---|---|---|---|---|---|
| V | | V | V | Ω | mA |
| 6 | **9**.006 | 5.1 | 6.6 | 12 | 500 |
| 12 | **9**.012 | 10.2 | 13.2 | 48 | 250 |
| 24 | **9**.024 | 20.4 | 26.4 | 192 | 125 |
| 48 | **9**.048 | 40.8 | 52.8 | 770 | 63 |
| 60 | **9**.060 | 51 | 66 | 1,200 | 50 |
| 110 | **9**.110 | 93.5 | 121 | 4,200 | 26 |
| 125 | **9**.125 | 106 | 138 | 5,200 | 24 |
| 220 | **9**.220 | 187 | 242 | 17,600 | 12.5 |

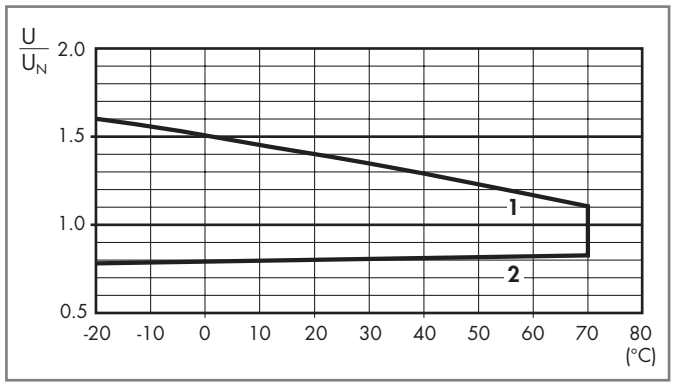
### AC (NO/nPST-NO) version data - ≥ 3 mm

| Nominal voltage $U_N$ | Coil code | Operating range $U_{min}$ | Operating range $U_{max}$ | Resistance R | Rated coil consumption I at $U_N$ (50Hz) |
|---|---|---|---|---|---|
| V | | V | V | Ω | mA |
| 6 | **8**.006 | 5.1 | 6.6 | 4 | 540 |
| 12 | **8**.012 | 10.2 | 13.2 | 14 | 275 |
| 24 | **8**.024 | 20.4 | 26.4 | 62 | 130 |
| 48 | **8**.048 | 40.8 | 52.8 | 220 | 70 |
| 60 | **8**.060 | 51 | 66 | 348 | 55 |
| 110 | **8**.110 | 93.5 | 121 | 1,200 | 30 |
| 120 | **8**.120 | 106 | 137 | 1,350 | 24 |
| 230 | **8**.230 | 196 | 253 | 5,000 | 14 |
| 240 | **8**.240 | 204 | 264 | 6,300 | 12.5 |
| 400 | **8**.400 | 340 | 440 | 14,700 | 7.8 |

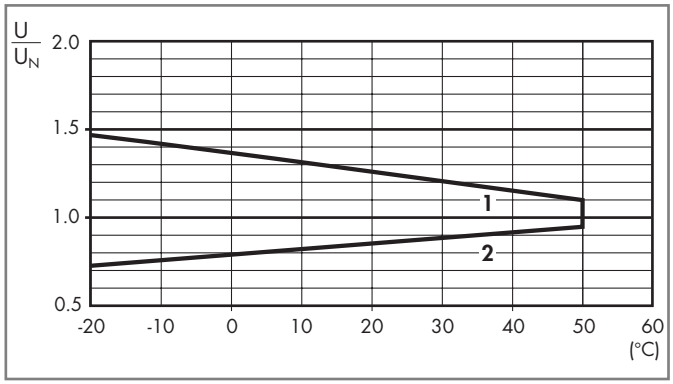
**R 62 - DC coil operating range v ambient temperature**
Changeover contacts



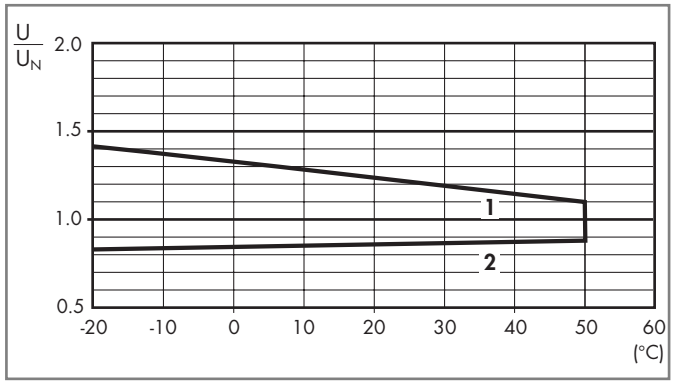

**R 62 - AC coil operating range v ambient temperature**
Changeover contacts




**R 62 - DC coil operating range v ambient temperature**
Normally open contacts




**R 62 - AC coil operating range v ambient temperature**
Normally open contacts




**1** - Max. permitted coil voltage.
**2** - Min. pick-up voltage with coil at ambient temperature.

**1** - Max. permitted coil voltage.
**2** - Min. pick-up voltage with coil at ambient temperature.

## Accessories

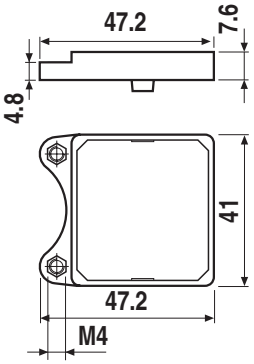


062.10

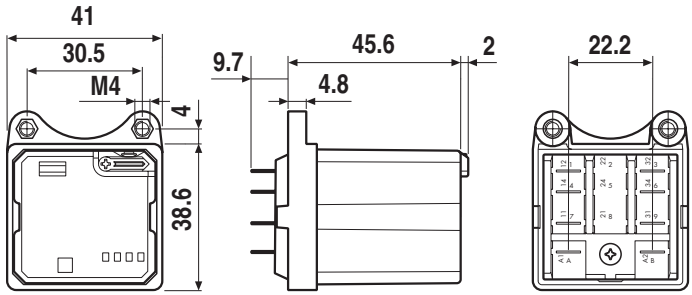


062.10 with relay

**Mounting adaptor** for types 62.3x and 62.8x.xxxx.xxx9 (M4) | 062.10




062.10




062.10 with relay

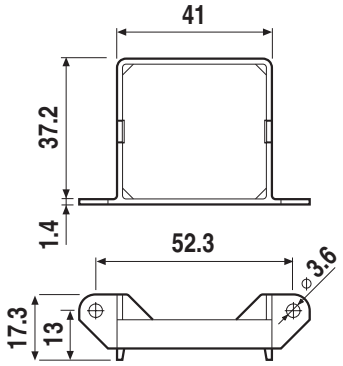


062.60

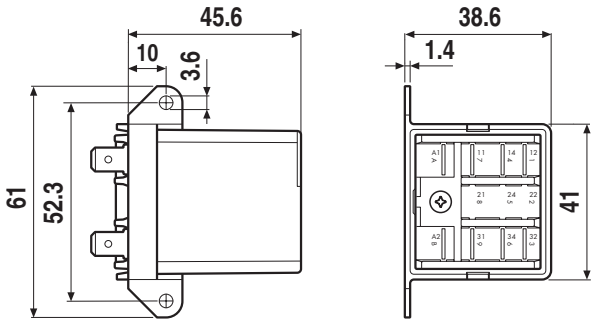


062.60 with relay

**Flange mounting adaptor** for types 62.3x and 62.8x.xxxx.xxx9 | 062.60




062.60




062.60 with relay

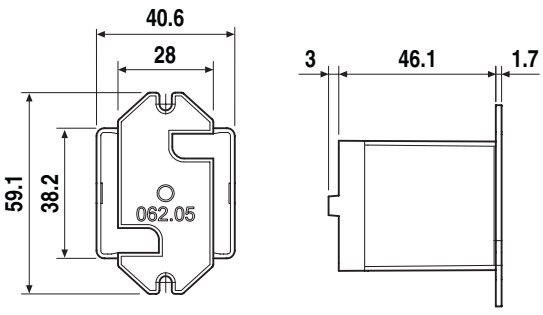


062.05

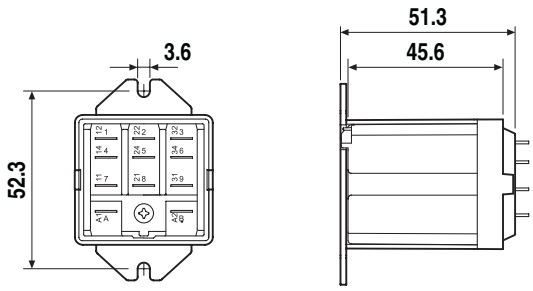


062.05 with relay

**Top flange mount** for types 62.8x.xxxx.xxx9 | 062.05




062.05




062.05 with relay

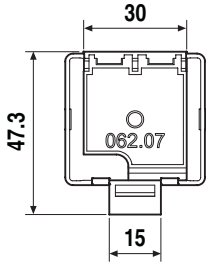


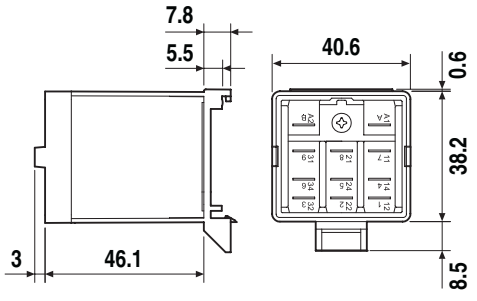
062.07



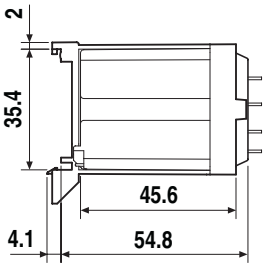
062.07 with relay

**Top 35 mm rail (EN 60715) mount** for types 62.8x.xxxx.xxx9 | 062.07




062.07




062.07 with relay

## Accessories

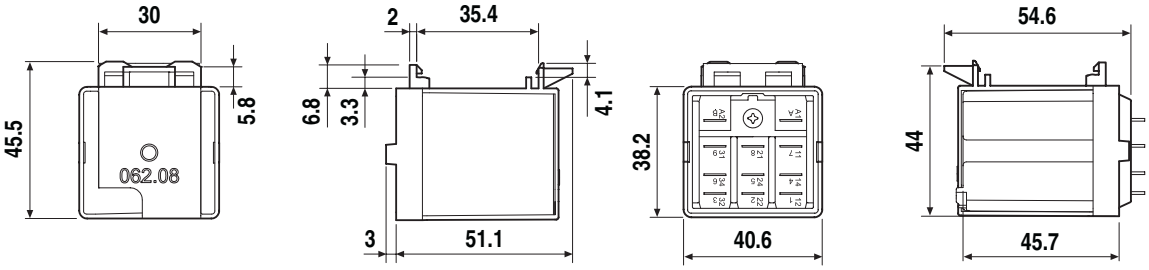


062.08



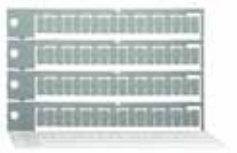
062.08 with relay

| | |
|---|---|
| **Rear 35 mm rail (EN 60715) mount** for types 62.8x.xxxx.xxx9 | 062.08 |



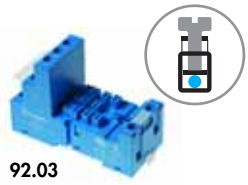

062.08

062.08 with relay



060.72

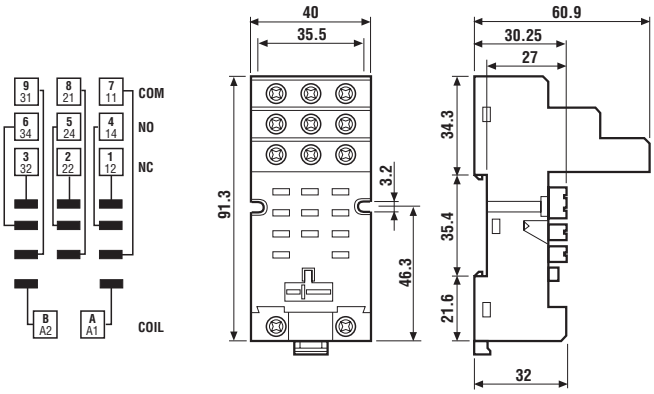
| | |
|---|---|
| **Sheet of marker tags** for 62 series relays, plastic, 72 tags, 6x12 mm | 060.72 |



92.03

Approvals (according to type):

| Screw terminal (Box clamp) socket<br>panel or 35 mm rail (EN 60715) mount | | 92.03<br>Blue | 92.03.0<br>Black |
|---|---|---|---|
| For relay type | | 62.32, 62.33 | |
| **Accessories** | | | |
| Metal retaining clip (supplied with socket - packaging code SMA) | | 092.71 | |
| Identification tag | | 092.00.2 | |
| Modules (see table below) | | 99.02 | |
| Timer modules (see table below) | | 86.00, 86.30 | |
| **Technical data** | | | |
| Rated values | | 16 A - 250 V | |
| Dielectric strength | | 6 kV (1.2/50 µs) between coil and contacts | |
| Protection category | | IP 20 | |
| Ambient temperature | °C | –40...+70 | |
| Screw torque | Nm | 0.8 | |
| Wire strip length | mm | 10 | |
| Max. wire size for 92.03 socket | | solid wire | stranded wire |
| | mm² | 1x10 / 2x4 | 1x6 / 2x4 |
| | AWG | 1x8 / 2x12 | 1x10 / 2x12 |






86.00



86.30

| 86 series timer modules | |
|---|---|
| Multi-voltage: (12...240)V AC/DC;<br>Multi-functions: AI, DI, SW, BE, CE, DE, EE, FE; (0.05s...100h) | 86.00.0.240.0000 |
| (12...24)V AC/DC; Bi-function: AI, DI; (0.05s...100h) | 86.30.0.024.0000 |
| (230...240)V AC; Bi-function: AI, DI; (0.05s...100h) | 86.30.8.240.0000 |

Approvals (according to type):



99.02

Approvals (according to type):

| **99.02 coil indication and EMC suppression modules** for 92.03 socket | | |
|---|---|---|
| Diode (+A1, standard polarity) | (6...220)V DC | 99.02.3.000.00 |
| LED | (6...24)V DC/AC | 99.02.0.024.59 |
| LED | (28...60)V DC/AC | 99.02.0.060.59 |
| LED | (110...240)V DC/AC | 99.02.0.230.59 |
| LED + Diode (+A1, standard polarity) | (6...24)V DC | 99.02.9.024.99 |
| LED + Diode (+A1, standard polarity) | (28...60)V DC | 99.02.9.060.99 |
| LED + Diode (+A1, standard polarity) | (110...220)V DC | 99.02.9.220.99 |
| LED + Varistor | (6...24)V DC/AC | 99.02.0.024.98 |
| LED + Varistor | (28...60)V DC/AC | 99.02.0.060.98 |
| LED + Varistor | (110...240)V DC/AC | 99.02.0.230.98 |
| RC circuit | (6...24)V DC/AC | 99.02.0.024.09 |
| RC circuit | (28...60)V DC/AC | 99.02.0.060.09 |
| RC circuit | (110...240)V DC/AC | 99.02.0.230.09 |
| Residual current by-pass | (110...240)V AC | 99.02.8.230.07 |

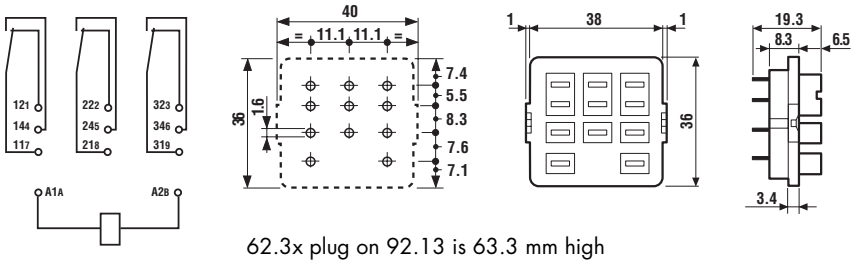
DC Modules with non-standard polarity (+A2) on request.



92.13

Approvals (according to type):

| PCB socket | 92.13 (blue) | 92.13.0 (black) |
|---|---|---|
| For relay type | 62.32, 62.33 | |
| **Accessories** | | |
| Metal retaining clip (supplied with socket - packaging code SMA) | 092.54 | |
| **Technical data** | | |
| Rated values | 16 A - 250 V (10 A max for each contact circuit) | |
| Dielectric strength | 2.5 kV AC | |
| Ambient temperature °C | –40...+70 | |



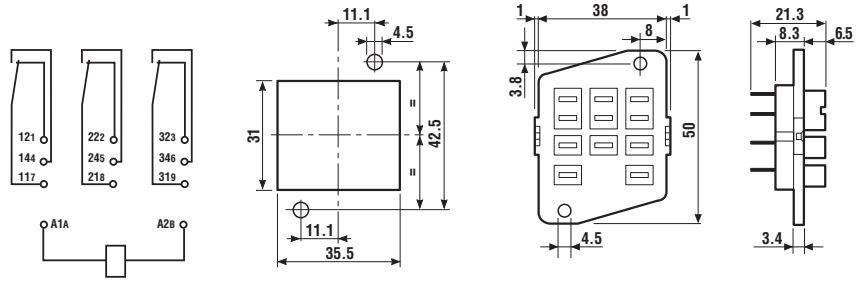

62.3x plug on 92.13 is 63.3 mm high



92.33

Approvals (according to type):

| Panel mount solder socket mounted with M3 screw | 92.33 (blue) |
|---|---|
| For relay type | 62.32, 62.33 |
| **Accessories** | |
| Metal retaining clip (supplied with socket - packaging code SMA) | 092.54 |
| **Technical data** | |
| Rated values | 16 A - 250 V (10 A max for each contact circuit) |
| Dielectric strength | 2.5 kV AC |
| Ambient temperature °C | –40...+70 |




## Packaging code

**How to code and identify retaining clip and packaging options for sockets.**

Example:

| 9 | 2 | . | 0 | 3 | S | M | A |
|---|---|---|---|---|---|---|---|

**A** Standard packaging

**SM** Metal retaining clip

| 9 | 2 | . | 0 | 3 | | | |
|---|---|---|---|---|---|---|---|

Without retaining clip