## Features

**2 & 4 Pole relay interface modules, 27 mm wide.**

**Ideal interface for PLC and electronic systems**

**59.32 - 2 Pole 10 A (screw terminals)**
**59.34 - 4 Pole 7 A (screw terminals)**

- AC coils and DC coils
- Supply status indication and coil suppression module as standard
- Identification labels
- Cadmium Free contact material options
- 35 mm rail (EN 60715) mount

59.32 / 59.34
Screw terminals



### 59.32

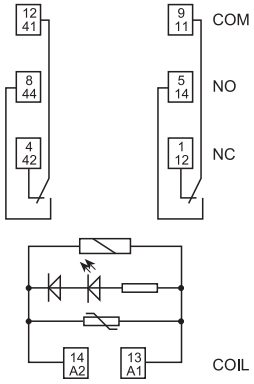


- 2 pole, 10 A
- Screw terminals
- 35 mm rail (EN 60715) mount

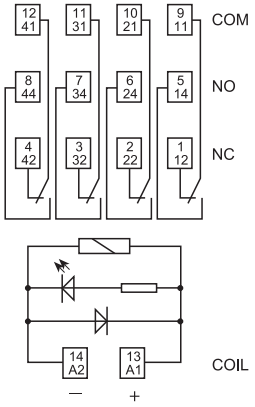
### 59.34



- 4 pole, 7 A
- Screw terminals
- 35 mm rail (EN 60715) mount




Example: AC




Example: DC

For outline drawing see page 4

| | | | |
|---|---|---|---|
| **Contact specification** | | | |
| Contact configuration | | 2 CO (DPDT) | 4 CO (4PDT) |
| Rated current/Maximum peak current | A | 10/20 | 7/10 |
| Rated voltage/Maximum switching voltage | V AC | 250/400 | 250/250 |
| Rated load AC1 | VA | 2,500 | 1,750 |
| Rated load AC15 (230 V AC) | VA | 500 | 350 |
| Single phase motor rating (230 V AC) | kW | 0.37 | 0.125 |
| Breaking capacity DC1: 30/110/220V | A | 10/0.25/0.12 | 7/0.25/0.12 |
| Minimum switching load | mW (V/mA) | 300 (5/5) | 300 (5/5) |
| Standard contact material | | AgNi | AgNi |
| **Coil specification** | | | |
| Nominal voltage ($U_N$) | V AC (50/60 Hz) | 12 - 24 - 230 | 12 - 24 - 230 |
| | V DC | 12 - 24 | 12 - 24 |
| Rated power AC/DC | VA (50 Hz)/W | 1.5/1 | 1.5/1 |
| Operating range | AC | $(0.8...1.1)U_N$ | $(0.8...1.1)U_N$ |
| | DC | $(0.8...1.1)U_N$ | $(0.8...1.1)U_N$ |
| 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 | $200 \cdot 10^3$ | $150 \cdot 10^3$ |
| Operate/release time | ms | 10/5 (AC) - 9/15 (DC) | 10/5 (AC) - 9/15 (DC) |
| Insulation between coil and contacts (1.2/50 µs) | kV | 3.6 | 3.6 |
| Dielectric strength between open contacts | V AC | 1,000 | 1,000 |
| Ambient temperature range | °C | –25...+70 | –25...+70 |
| Protection category | | IP 20 | IP 20 |
| **Approvals relay** (according to type) | | | |

## Ordering information

Example: 59 series 35 mm rail (EN 60715) mounting, screw terminal, interface module, 4 CO (4PDT), 24 V DC coil, green LED + diode.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | B | C | D | | |
| 5 | 9 | . | 3 | 4 | . | 9 | . | 0 | 2 | 4 | . | 0 | 0 | 5 | 0 |

**Series**

**Type**
3 = Screw terminals,
35 mm rail (EN 60715) mount

**No. of poles**
2 = 2 pole, 10 A
4 = 4 pole, 7 A

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

**Coil voltage**
See coil specifications

**A: Contact material**
0 = AgNi Standard
2 = AgCdO
5 = AgNi + Au (5 µm)

**B: Contact circuit**
0 = CO (nPDT)

**D: Special versions**
0 = Standard

**C: Options**
5 = Standard DC: green LED + diode (polarity +A1)
6 = Standard AC: green LED + Varistor

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

| Type | Coil version | A | B | C | D |
|---|---|---|---|---|---|
| 59.32/34 | AC | **0** - 2 - 5 | 0 | **6** | 0 |
| 59.32/34 | DC | **0** - 2 - 5 | 0 | **5** | 0 |

## Technical data

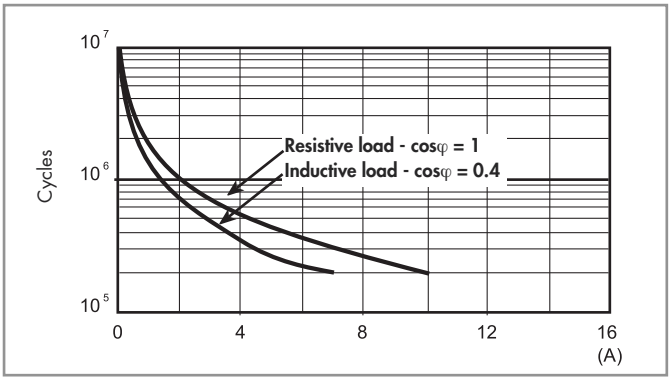
| | | | | |
|---|---|---|---|---|
| **Insulation** | | | | |
| Insulation according to EN 61810-1 | insulation rated voltage | V | 400 (2 pole) | 250 (4 pole) |
| | rated impulse withstand voltage | kV | 3.6 (2 pole) | 2.5 (4 pole) |
| | pollution degree | | 2 | 2 |
| | overvoltage category | | III | II |
| Insulation between coil and contacts (1.2/50 µs) | | kV | 3.6 | |
| Dielectric strength between open contacts | | V AC | 1,000 | |
| Dielectric strength between adjacent contacts | | V AC | 2,000 (59.32) | 1,550 (59.34) |
| **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 | 1/3 | |
| Vibration resistance (10...55)Hz: NO/NC | | g | 6/6 | |
| Power lost to the environment | without contact current | W | 1 | |
| | with rated current | W | 3 | |
| | | | **59.32/34 (screw terminals)** | |
| Wire strip length | | mm | 8 | |
| Screw torque | | Nm | 0.5 | |
| Max. wire size | | | solid cable | stranded cable |
| | | $mm^2$ | 1x6 / 2x2.5 | 1x4 / 2x2.5 |
| | | AWG | 1x10 / 2x14 | 1x12 / 2x14 |



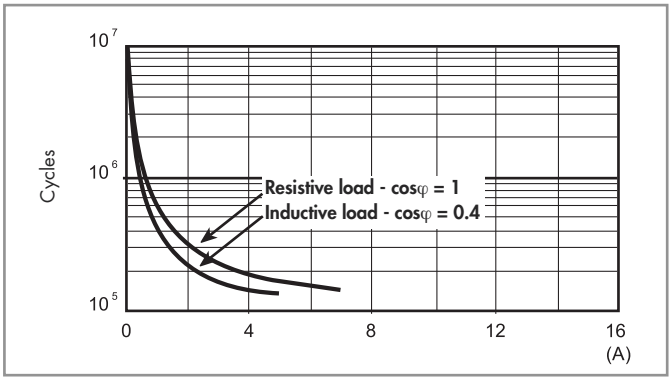
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## Contact specification

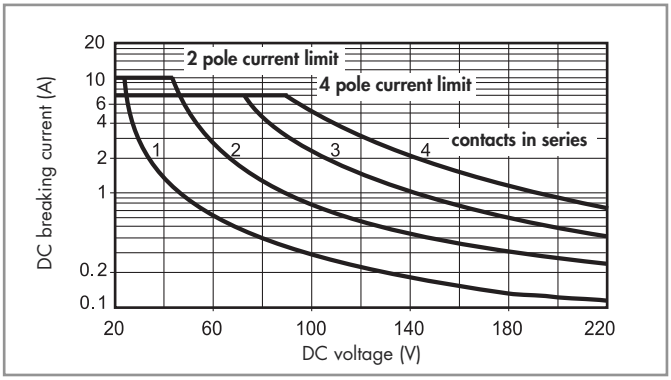
**F 59 - Electrical life (AC) v contact current**
2 pole relay




**F 59 - Electrical life (AC) v contact current**
4 pole relay




**H 59 - Maximum DC1 breaking capacity**




- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 100·10³ 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 for the load will be increased.

## Coil specifications

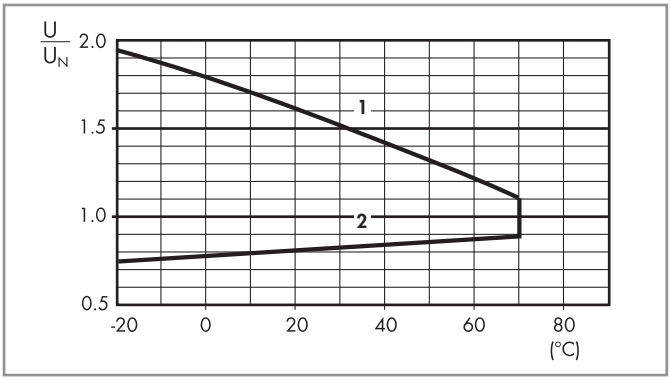
**DC coil data**

| Nominal voltage $U_N$ | Coil code | Operating range $U_{min}$ | Operating range $U_{max}$ | Resistance R | Rated coil absorption I at $U_N$ |
|---|---|---|---|---|---|
| V | | V | V | Ω | mA |
| 12 | **9**.012 | 9.6 | 13.2 | 140 | 86 |
| 24 | **9**.024 | 19.2 | 26.4 | 600 | 40 |

**AC coil data**

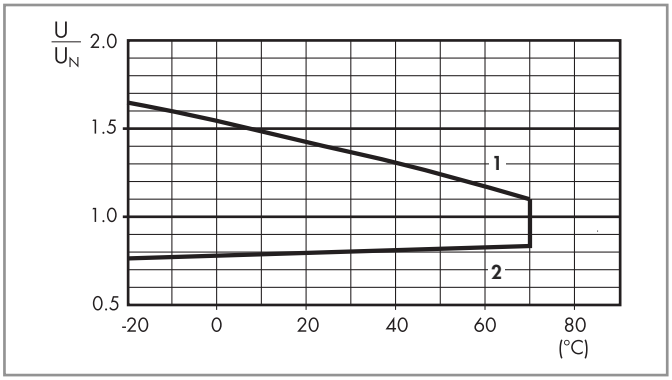
| Nominal voltage $U_N$ | Coil code | Operating range $U_{min}$ | Operating range $U_{max}$ | Resistance R | Rated coil absorption I at $U_N$ (50Hz) |
|---|---|---|---|---|---|
| V | | V | V | Ω | mA |
| 12 | **8**.012 | 9.6 | 13.2 | 50 | 97 |
| 24 | **8**.024 | 19.2 | 26.4 | 190 | 53 |
| 230 | **8**.230 | 184 | 253 | 17,000 | 6 |

**R 59 - DC coil operating range v ambient temperature**




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

**R 59 - AC coil operating range v ambient temperature**

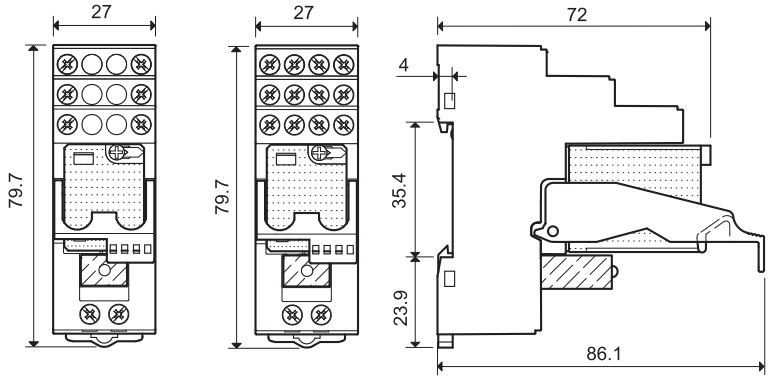



**1** - Max. permitted coil voltage.
**2** - Min. pick-up voltage with coil at ambient temperature.

## Combinations

| Code | Type of socket | Type of relay | Module | Retaining clip |
|---|---|---|---|---|
| 59.32 | 94.94.3 | 55.32 | 99.80 | 094.91.3 |
| 59.34 | 94.94.3 | 55.34 | 99.80 | 094.91.3 |

## Outline drawing

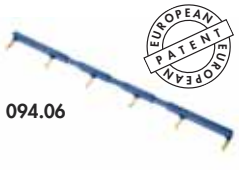



59.32
Screw terminals

59.34
Screw terminals

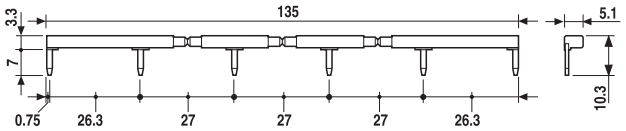


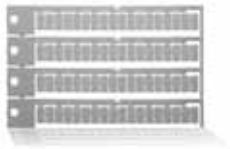
## Accessories



094.06

| | | |
|---|---|---|
| **6-way jumper link** for 59.32 and 59.34 | 094.06 (blue) | 094.06.0 (black) |
| Rated values | 10 A - 250 V | |



060.72

| | |
|---|---|
| **Sheet of marker tags** for retaining and release clip 094.91.3<br>plastic, 72 tags, 6x12 mm | 060.72 |

## Packaging codes

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

Example:

| 5 | 9 | . | 3 | 4 | . | 9 | . | 0 | 2 | 4 | . | 0 | 0 | 5 | 0 | S | P | A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**A** Standard packaging
**B** Blister packaging

**SP** Plastic retaining clip



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