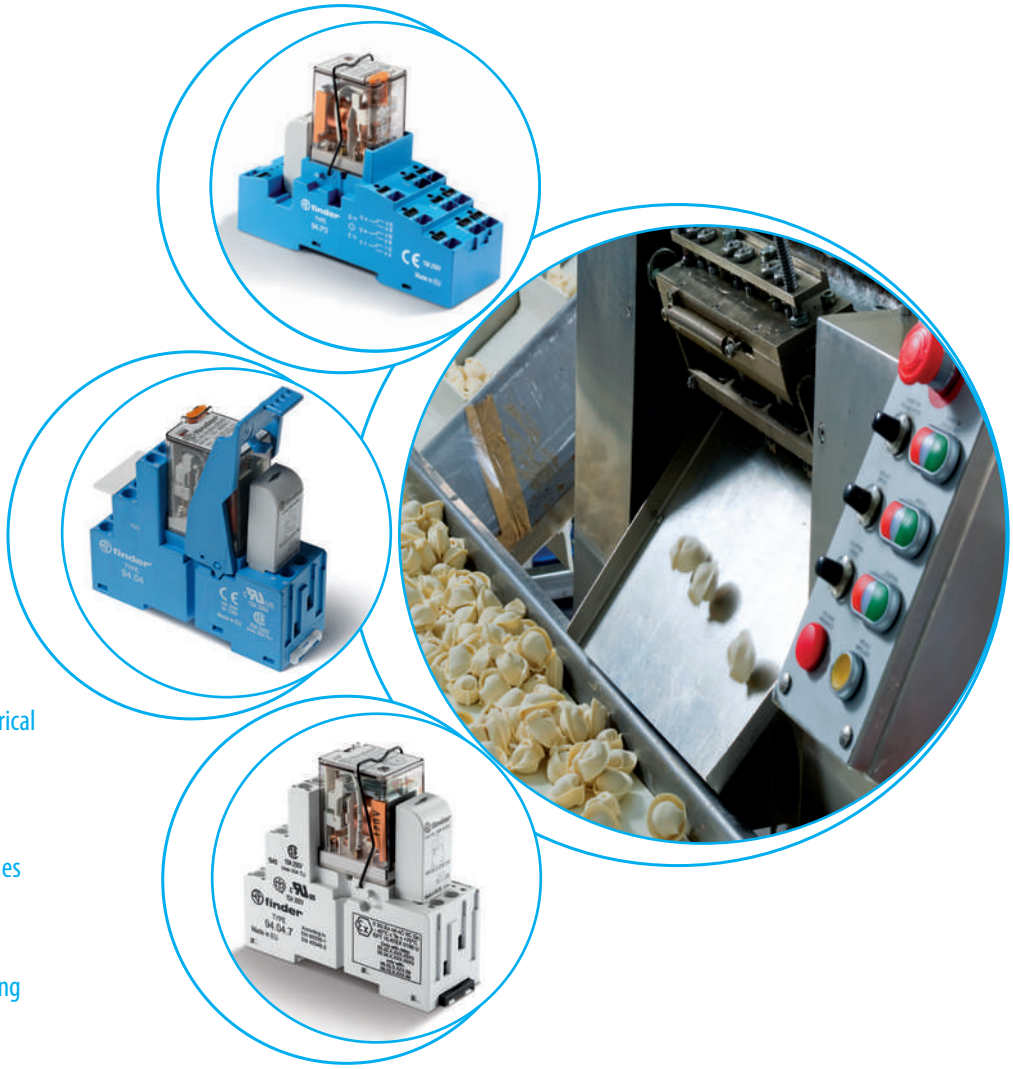
finder®
SWITCH TO THE FUTURE

58
SERIES

# Relay interface modules 6 - 7 - 10 A

- Control panels
- Packaging machines
- Shipyards
- Textile machines
- Carousel warehouses
- Panels for electrical distribution
- Hoists and cranes
- Wood-processing machines



**3 & 4 CO relay interface modules, 31 mm wide with Push-in terminals**

**Ideal interface for PLC and electronic systems**

**Type 58.P3**
- 3 CO 10 A
- Push-in terminals

**Type 58.P4**
- 4 CO 7 A
- Push-in terminals

- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Identification label
- Cadmium Free contacts
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

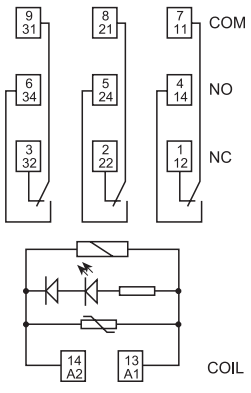
58.P3 / 58.P4
Push-in terminals



NEW **58.P3**



- 3 CO 10 A
- Push-in terminals

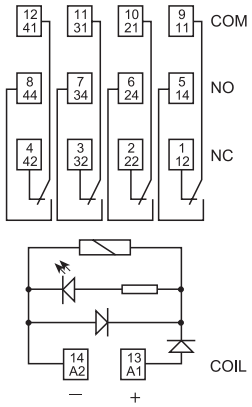



Example: AC

NEW **58.P4**



- 4 CO 7 A
- Push-in terminals




Example: DC

For outline drawing see page 9

| | | | |
|---|---|---|---|
| **Contact specification** | | | |
| Contact configuration | | 3 CO (3PDT) | 4 CO (4PDT) |
| Rated current/Maximum peak current | A | 10/20 | 7/15 |
| Rated voltage/ Maximum switching voltage | V AC | 250/400 | 250/250 |
| Rated load AC1 | VA | 2500 | 1750 |
| Rated load AC15 (230 V AC) | VA | 500 | 350 |
| Single phase motor rating (230 V AC) | kW | 0.37 | 0.125 |
| Breaking capacity DC1: 30/110/220 V | 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 - 48 - 110 - 120 - 230 | 12 - 24 - 48 - 110 - 120 - 230 |
| | V DC | 12 - 24 - 48 - 125 | 12 - 24 - 48 - 125 |
| 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) - 10/15 (DC) | 11/3 (AC) - 11/15 (DC) |
| Insulation between coil and contacts (1.2/50 µs) | kV | 3.6 | 3.6 |
| Dielectric strength between open contacts | V AC | 1000 | 1000 |
| Ambient temperature range | °C | –40…+70 | –40…+70 |
| Protection category | | IP 20 | IP 20 |
| **Approvals relay** (according to type) | | | |

B

**2, 3 & 4 CO relay interface modules, 27 mm wide with Screw terminals**

**Ideal interface for PLC and electronic systems**

**Type 58.32**
- 2 CO 10 A
- Screw terminals

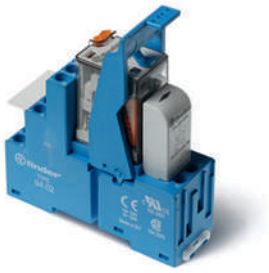
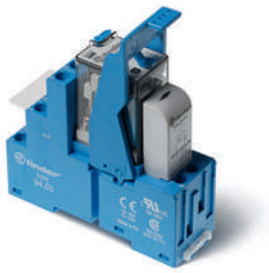
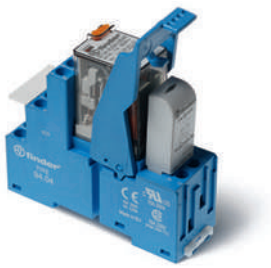
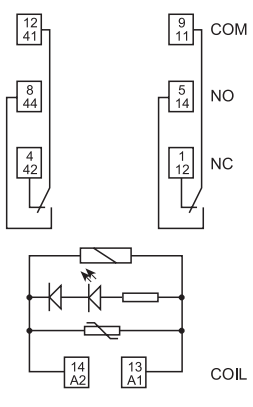
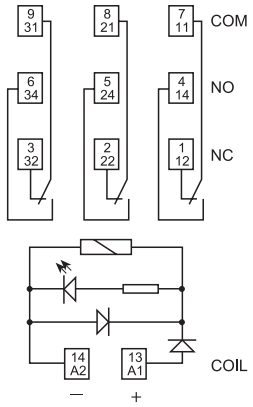
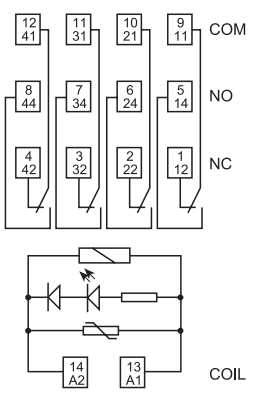
**Type 58.33**
- 3 CO 10 A
- Screw terminals

**Type 58.34**
- 4 CO 7 A
- Screw terminals

- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Identification label
- Cadmium Free contacts
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

58.32 / 58.33 / 58.34
Screw terminals



| | 58.32 | 58.33 | 58.34 |
|---|---|---|---|
| |  |  |  |
| | • 2 CO 10 A<br>• Screw terminals | • 3 CO 10 A<br>• Screw terminals | • 4 CO 7 A<br>• Screw terminals |
| |  |  |  |
| For outline drawing see page 9 | Example: AC | Example: DC | Example: AC |
| **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) | 12 - 24 - 48 - 110 - 120 - 230 | 12 - 24 - 48 - 110 - 120 - 230 | 12 - 24 - 48 - 110 - 120 - 230 |
| V DC | 12 - 24 - 48 - 125 | 12 - 24 - 48 - 125 | 12 - 24 - 48 - 125 |
| 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 (AC) - 10/15 (DC) | 10/5 (AC) - 10/15 (DC) | 11/3 (AC) - 11/15 (DC) |
| Insulation between coil and contacts (1.2/50 µs) kV | 3.6 | 3.6 | 3.6 |
| Dielectric strength between open contacts V AC | 1000 | 1000 | 1000 |
| Ambient temperature range °C | –40…+70 | –40…+70 | –40…+70 |
| Protection category | IP 20 | IP 20 | IP 20 |
| **Approvals relay** (according to type) | CE cULus VDE RINA | | |

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**2 & 4 CO relay interface modules, 27 mm wide with Screw terminals**

**ATEX compliant (EX nA nC)**

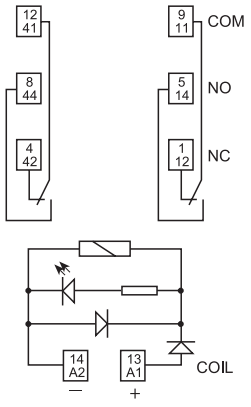
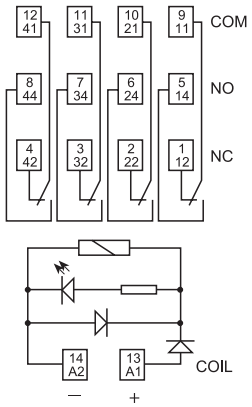
**Type 58.32 - x0xx**
- 2 CO 10 A
- Screw terminals

**Type 58.34 - x0xx**
- 4 CO 6 A
- Screw terminals

- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Mechanical indicator - optional on 2 & 4 CO types
- Identification label
- Cadmium Free contacts
- UL Listed
- Complies with:
  - EN 60079-0:2012 and EN 60079-15:2010
  - 94/9/CE and 2014/34/UE
- 35 mm rail (EN 60715) mounting

58.32 / 58.34 - x0xx
Screw terminals



| | NEW 58.32 - x0xx | NEW 58.34 - x0xx |
|---|---|---|
| |  |  |
| | • 2 CO 10 A<br>• Screw terminals<br>• ATEX compliant | • 4 CO 6 A<br>• Screw terminals<br>• ATEX compliant |
| |  |  |
| For outline drawing see page 9 | Example: DC | Example: DC |
| **Contact specification** | | |
| Contact configuration | 2 CO (DPDT) | 4 CO (4PDT) |
| Rated current/Maximum peak current A | 10/20 | 6/15 |
| Rated voltage/ Maximum switching voltage V AC | 250/400 | 250/250 |
| Rated load AC1 VA | 2500 | 1500 |
| Rated load AC15 (230 V AC) VA | 500 | 350 |
| Single phase motor rating (230 V AC) kW | 0.37 | 0.125 |
| Breaking capacity DC1: 30/110/220 V A | 10/0.25/0.12 | 6/0.25/0.12 |
| 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 - 48 - 110 - 120 - 230 | 12 - 24 - 48 - 110 - 120 - 230 |
| V DC | 12 - 24 - 48 - 125 | 12 - 24 - 48 - 125 |
| 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 | $150 \cdot 10^3$ | $150 \cdot 10^3$ |
| Operate/release time ms | 11/3 (AC) - 11/15 (DC) | 11/3 (AC) - 11/15 (DC) |
| Insulation between coil and contacts (1.2/50 µs) kV | 3.6 | 3.6 |
| Dielectric strength between open contacts V AC | 1000 | 1000 |
| Ambient temperature range °C | –40…+70 | –40…+70 |
| Protection category | IP 20 | IP 20 |
| **Approvals relay** (according to type) | CE Ex SP cULus | |

B

## Ordering information

Example: 58 series, 35 mm rail (EN 60715) mounting, Push-in terminals interface module, 4 CO, 24 V DC coil, green LED + diode.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | A | B | C | D | |
| 5 | 8 | . | P | 4 | . | 9 | . | 0 | 2 | 4 | . | 0 | 0 | 5 | 0 |

**Series**

**Type**
3 = Screw terminals
35 mm rail (EN 60715) mount
P = Push-in terminals
35 mm rail (EN 60715) mount

**No. of poles**
2 = 2 pole, 10 A
3 = 3 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
5 = AgNi + Au

**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 |
|---|---|---|---|---|---|
| 58.P3/P4/32/33/34 | AC | **0** - 5 | 0 | **6** | 0 |
| 58.P3/P4/32/33/34 | DC | **0** - 5 | 0 | **5** | 0 |

## Ordering information ATEX versions

Example: 58 series, 35 mm rail (EN 60715), screw terminal interface module, 4 CO, 120 V AC, green LED, mechanical indicator, ATEX version

| | | | | | | | | | | | A | B | C | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 8 | . | 3 | 4 | . | 8 | . | 1 | 2 | 0 | . | 0 | 0 | 4 | 9 |

**Series**

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

**No. of poles**
2 = 2 pole, 10 A
4 = 4 pole, 6 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

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

**D: Special versions**
8 = ATEX compliant (Ex nA nC) without mechanical indicator
9 = ATEX compliant (Ex nA nC) with mechanical indicator

**C: Options**
4 = Module 99 LED (AC/DC)
5 = Module 99 LED + Diode (DC)

## Technical data

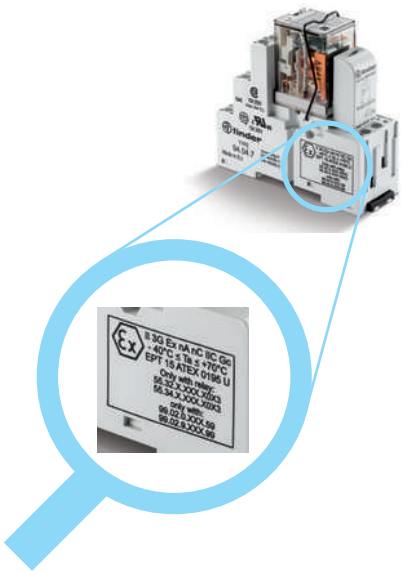
| | | | | | | |
|---|---|---|---|---|---|---|
| **Insulation** | | | | | | |
| Insulation according to EN 61810-1 | insulation rated voltage | V | 400 (2-3 pole) | | 250 (4 pole) | |
| | rated impulse withstand voltage | kV | 3.6 (2-3 pole) | | 2.5 (4 pole) | |
| | pollution degree | | 2 | | 2 | |
| | overvoltage category | | III | | II | |
| Insulation between coil and contacts (1.2/50 µs) | | kV | 3.6 | | | |
| Dielectric strength between open contacts | | V AC | 1000 | | | |
| Dielectric strength between adjacent contacts | | V AC | 2000 (58.32,58.33, 58.P3) | | 1550 (58.34, 58.P4) | |
| **Conducted disturbance immunity** | | | | | | |
| Burst (5…50)ns, 5 kHz, on A1 - A2 according to EN 61000-4-4 | | | level 4 (4 kV) | | | |
| Surge (1.2/50 µs) on A1 - A2 (differential mode) according to 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 (58.32, 58.34, 58.P4) | | 4 (58.P3, 58.33) | |
| | | | **58.32/33/34 (screw terminals)** | | **58.P3/P4 (Push-in terminals)** | |
| Wire strip length | | mm | 8 | | 8 | |
| Screw torque | | Nm | 0.5 | | — | |
| Min. wire size | | | solid cable | stranded cable | solid cable | stranded cable |
| | | $mm^2$ | 0.5 | 0.5 | 0.5 | 0.5 |
| | | AWG | 21 | 21 | 21 | 21 |
| Max. wire size | | | solid cable | stranded cable | solid cable | stranded cable |
| | | $mm^2$ | 1 x 6 / 2 x 2.5 | 1 x 4 / 2 x 2.5 | 2 x 1.5 / 1 x 2.5 | 2 x 1.5 / 1 x 2.5 |
| | | AWG | 1 x 10 / 2 x 14 | 1 x 12 / 2 x 14 | 2 x 16 / 1 x 14 | 2 x 16 / 1 x 14 |

## Other data ATEX versions

| | | | | |
|---|---|---|---|---|
| **Max current @ 70 °C** | | Single piece mount | | > 1 piece mount |
| Type 58.32 | A | 10 | | 7 |
| Type 58.34 | A | 6 | | 5 |
| **Terminal** | | | | |
| Wire strip length | mm | 8 | | |
| Screw torque | Nm | 0.5 | | |
| Wire size | | solid cable | | stranded cable |
| | $mm^2$ | 1 x 2.5 | | 2 x 1.5 |
| | AWG | 1 x 12 | | 2 x 16 |

## Markings - ATEX versions - ATEX, II 3G Ex nA nC IIC Gc

| MARKING | |
|---|---|
| Specific marking of explosion protection | |
| **II**<br>Component for surface plant (different from mines) | |
| **3**<br>Category 3: normal level of protection | |
| GAS | **G**<br>Explosive atmosphere due to presence of combustible gas vapour or mist |
| | **Ex nA**<br>Non-sparking equipment |
| | **Ex nC**<br>Sealed device (type of protection for category 3G) |
| | **IIC**<br>Gas group |
| | **Gc**<br>Equipment Protection Level |
| **–40 °C ≤ Ta ≤ +70 °C**<br>Ambient temperature | |
| **EPT 15 ATEX 0195 U**<br>EPT: laboratory which issues the CE type certificate<br>15: year of issue of certificate<br>0195: number of CE type certificate<br>U: ATEX component | |



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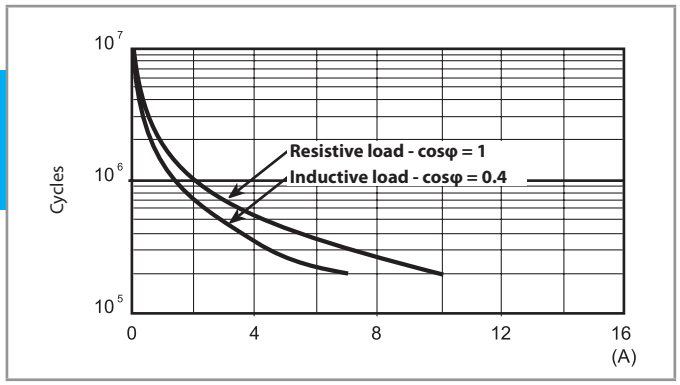
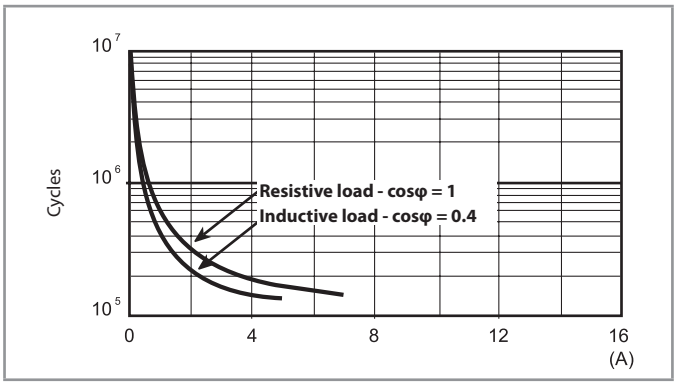
B

## Contact specification

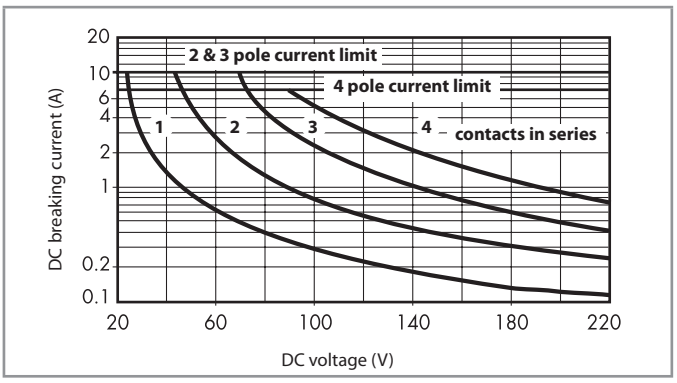
**F 58 - Electrical life (AC) v contact current**
2 & 3 pole relays




**F 58 - Electrical life (AC) v contact current**
4 pole relay




**H 58 - Maximum DC1 breaking capacity**




- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 100 · $10^3$ 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 for the load will be increased.

## Coil specifications

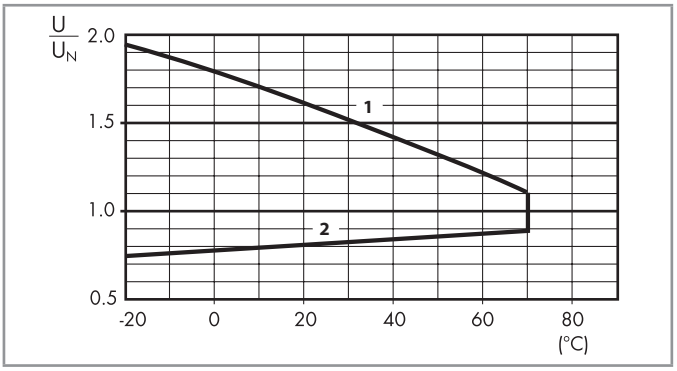
**DC coil data**

| Nominal voltage | Coil code | Operating range | | Resistance | Rated coil absorption |
|---|---|---|---|---|---|
| $U_N$ | | $U_{min}$ | $U_{max}$ | R | 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 |
| 48 | **9**.048 | 38.4 | 52.8 | 2400 | 20 |
| 125 | **9**.125 | 100 | 138 | 17300 | 7.2 |

**AC coil data**

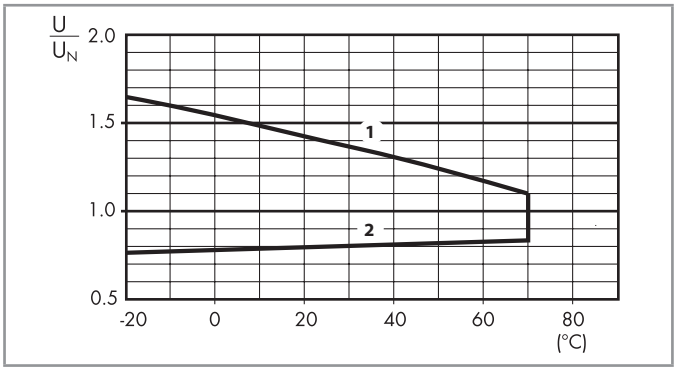
| Nominal voltage | Coil code | Operating range | | Resistance | Rated coil absorption |
|---|---|---|---|---|---|
| $U_N$ | | $U_{min}$ | $U_{max}$ | R | I at $U_N$ (50 Hz) |
| V | | V | V | Ω | mA |
| 12 | **8**.012 | 9.6 | 13.2 | 50 | 97 |
| 24 | **8**.024 | 19.2 | 26.4 | 190 | 53 |
| 48 | **8**.048 | 38.4 | 52.8 | 770 | 25 |
| 110 | **8**.110 | 88 | 121 | 4000 | 12.5 |
| 120 | **8**.120 | 96 | 132 | 4700 | 12 |
| 230 | **8**.230 | 184 | 253 | 17000 | 6 |

**R 58 - DC coil operating range v ambient temperature**




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

**R 58 - AC coil operating range v ambient temperature**




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



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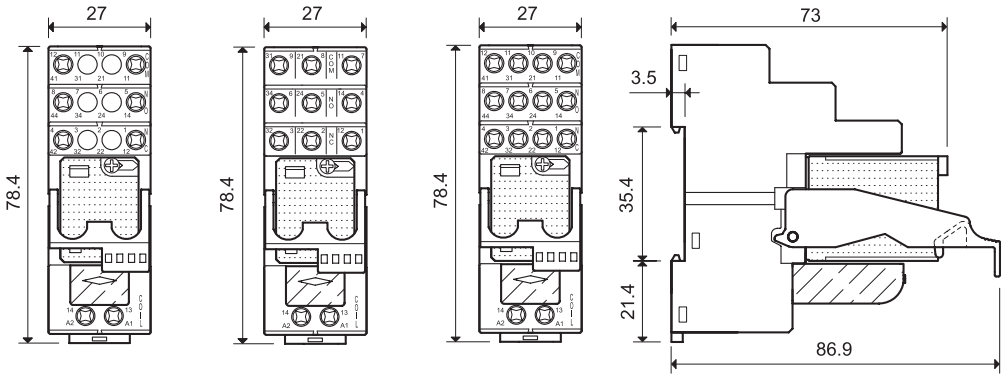
## Combinations

Certain relay/socket combinations

| Code | Type of socket | Type of relay | Module | Retaining clip |
|---|---|---|---|---|
| 58.P3 | 94.P3 | 55.33 | 99.02 | 094.91.3 |
| 58.P4 | 94.P4 | 55.34 | 99.02 | 094.91.3 |
| 58.32 | 94.02 | 55.32 | 99.02 | 094.91.3 |
| 58.33 | 94.03 | 55.33 | 99.02 | 094.91.3 |
| 58.34 | 94.04 | 55.34 | 99.02 | 094.91.3 |

B

## Outline drawing




58.32
Screw terminals

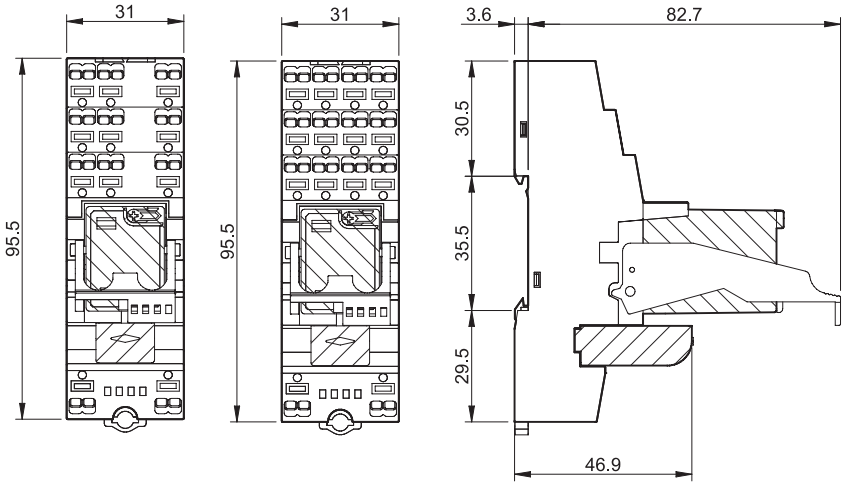


58.33
Screw terminals



58.34
Screw terminals






58.P3
Push-in terminal



58.P4
Push-in terminal



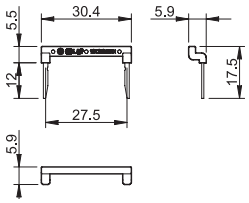
B

## Accessories



094.52.1

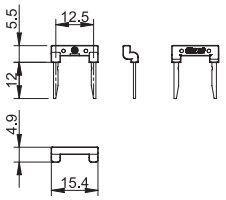
| | |
|---|---|
| **2-way jumper link** for type 58.P3 and 58.P4 | 094.52.1 |
| Rated values | 10 A - 250 V |






097.52

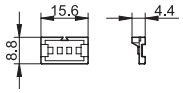
| | |
|---|---|
| **2-way jumper link** for type 58.P3 and 58.P4 | 097.52 |
| Rated values | 10 A - 250 V |

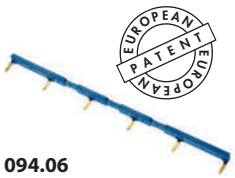





097.00

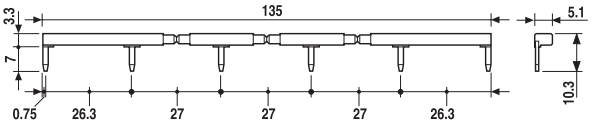
| | |
|---|---|
| **Marker tag holder** for type 58.P3, 58.P4, 58.32, 58.33 and 58.34 | 097.00 |




094.06

| | | |
|---|---|---|
| **6-way jumper link** for type 58.32, 58.33, 58.34 | 094.06 (blue) | 094.06.0 (black) |
| Rated values | 10 A - 250 V | |

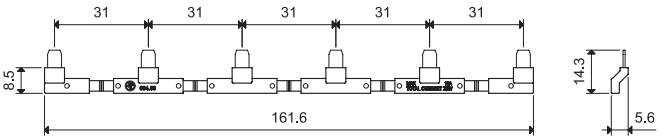


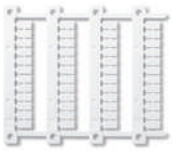




094.56

| | |
|---|---|
| **6-way jumper link** for type 58.P3 and 58.P4 | 094.56 (blue) |
| Rated values | 10 A - 250 V |



060.48

| | |
|---|---|
| **Sheet of marker tags**, plastic, 48 tags, 6 x 12 mm | 060.48 |

## Packaging codes

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

Example:

| 5 8 | . | P | 4 | . | 9 | . | 0 2 4 | . | 0 | 0 5 0 | S P | A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

**SP** Plastic retaining clip
**SM** Metallic retaining clip
(58.32/33/34 - x0xx only)



Please see general technical information

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