



finder[®]
SWITCH TO THE FUTURE

38
SERIES

Relay interface modules 0.1 - 2 - 3 - 5 - 6 - 8 - 16 A



Bottling plant



Packaging machines



Control panels



Traffic light controls



Vending machines



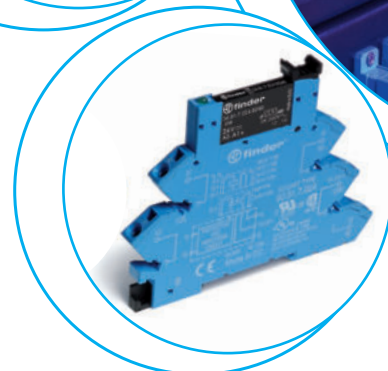
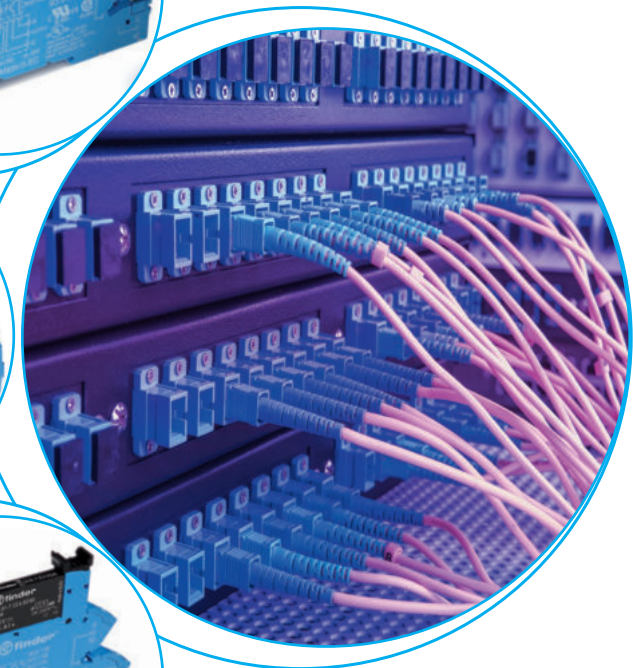
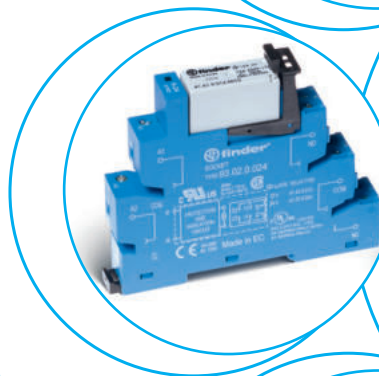
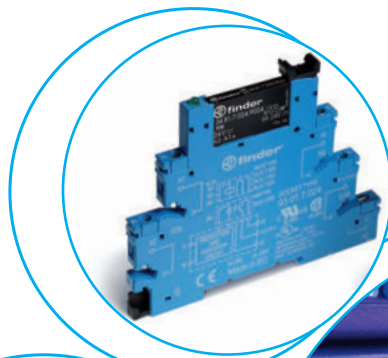
Programmable controllers



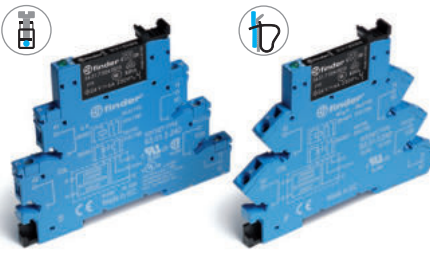
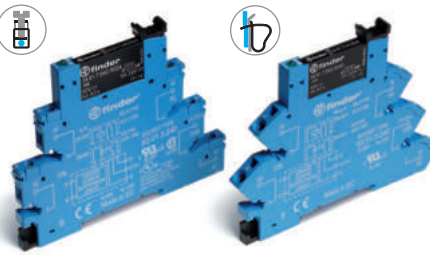
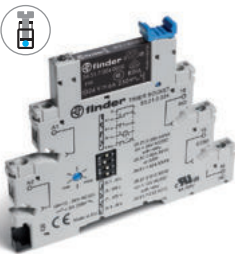
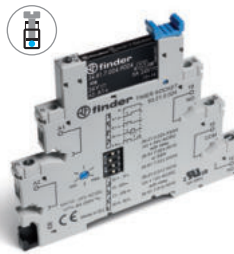
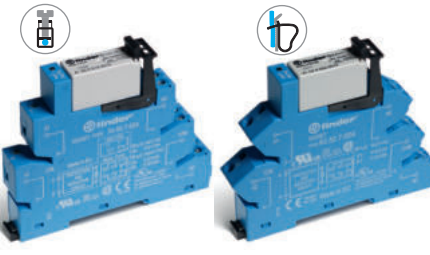
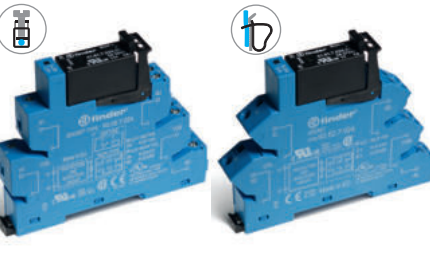


Panels for electrical distribution



Labelling machines



| <p>Common features</p> <ul style="list-style-type: none"> Instant ejection of relay by plastic retaining clip Integral coil indication and protection circuit 35 mm rail (EN 60715) mounting | <p>EMR Electromechanical Relays</p> | <p>SSR Solid State Relays</p> |
|---|--|--|
| <p>6.2 mm wide</p> <ul style="list-style-type: none"> EMR - DC, AC or AC/DC coil versions SSR - DC or AC/DC input versions Screw and Screwless terminal options | <p>38.51/38.61</p>  <ul style="list-style-type: none"> 1 CO - 6 A/250 V AC <p>Page 1</p> | <p>38.81/38.91</p>  <ul style="list-style-type: none"> Single solid state output: Options 0.1 A/48 V DC, 6 A/24 V DC, 2 A/240 V AC Silent, high speed switching Long electrical life <p>Page 2</p> |
| <p>6.2 mm wide</p> <ul style="list-style-type: none"> Special coil/input leakage current suppression types EMR - AC or AC/DC coil versions SSR - AC or AC/DC input versions Screw and Screwless terminal options | <p>38.51.3... - 38.61.3...</p>  <ul style="list-style-type: none"> 1 CO - 6 A/250 V AC <p>Page 1</p> | <p>38.81.3... - 38.91.3...</p>  <ul style="list-style-type: none"> Single solid state output: Options 0.1 A/48 V DC, 6 A/24 V DC, 2 A/240 V AC Silent, high speed switching Long electrical life <p>Page 2</p> |
| <p>6.2 mm wide</p> <ul style="list-style-type: none"> Timed Interface module 4 functions & 4 time scales 0.1 s...6 h EMR - AC/DC (12 or 24 V) supply versions SSR - AC/DC (24 V) supply Screw terminals | <p>38.21</p>  <ul style="list-style-type: none"> 1 CO - 6 A/250 V AC <p>Page 3</p> | <p>38.21...9024-8240</p>  <ul style="list-style-type: none"> Single solid state output: Options 6 A/24 V DC, 2 A/240 V AC Silent, high speed switching Long electrical life <p>Page 3</p> |
| <p>14 mm wide</p> <ul style="list-style-type: none"> 2 pole 8 A or 1 pole 16 A EMR - DC or AC/DC coil versions SSR - DC input versions Screw and Screwless terminal options | <p>38.01/38.52/38.11/38.62</p>  <ul style="list-style-type: none"> 1 CO - 16 A/250 V AC 2 CO - 8 A/250 V AC <p>Page 4</p> | <p>38.31/38.41</p>  <ul style="list-style-type: none"> Single solid state output: Options 5 A/24 V DC, 3 A/240 V AC Silent, high speed switching Long electrical life <p>Page 5</p> |

B

1 Pole - 6 A electromechanical relay interface modules, 6.2 mm wide.

Ideal interface for PLC and electronic systems

- Sensitive DC coil or AC/DC coil versions
- Integral coil indication and protection circuit
- Instant ejection of relay using plastic retaining clip
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

38.51/38.51.3
Screw terminal

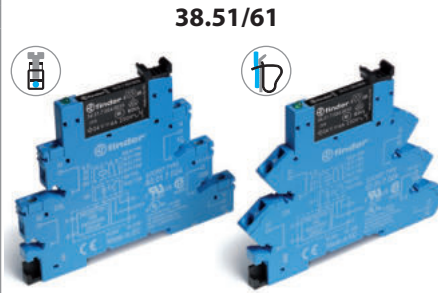
38.61/38.61.3
Screwless terminal



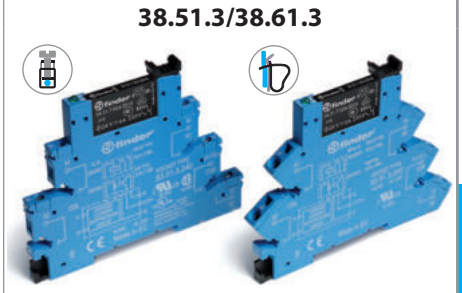
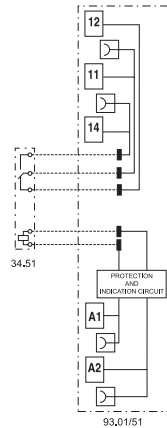
* Special version for max ambient temperature +70 °C.

** Maximum ambient temperature limitations apply in the case of adjacent mounting of modules, where the coil is energised with a duty cycle of $\geq 50\%$ or where the ON time exceeds 1 hour:
+55 °C: applies to groups limited to 2 adjacent modules and where each group is separated by an air gap ≥ 6.2 mm.
+30 °C: applies to a group of more than 2 adjacent modules.

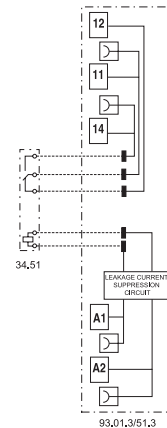
For outline drawing see page 13



- 1 pole electromechanical relay
- Screw terminal and screwless terminal
- 35 mm rail (EN 60715) mounting



- Leakage current suppression
- 1 pole electromechanical relay
- Screw terminal and screwless terminal
- 35 mm rail (EN 60715) mounting



Contact specification

| | | | |
|---|-----------|-------------|-------------|
| Contact configuration | | 1 CO (SPDT) | 1 CO (SPDT) |
| 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 | 1500 | 1500 |
| Rated load AC15 (230 V AC) | VA | 300 | 300 |
| Single phase motor rating (230 V AC) | kW | 0.185 | 0.185 |
| Breaking capacity DC1: 30/110/220 V | A | 6/0.2/0.12 | 6/0.2/0.12 |
| Minimum switching load | mW (V/mA) | 500 (12/10) | 500 (12/10) |
| Standard contact material | | AgNi | AgNi |

Coil specification

| | | | | |
|-----------------------------------|--------------|---|---|--------------|
| Nominal voltage (U _N) | V AC/DC | 12 - 24 - 48 - 60 - (110...125) - (220...240)** | (110...125) | — |
| | V AC | (230...240)* | — | (230...240) |
| | V DC | 6 - 12 - 24 - 48 - 60 (non polarized) | — | — |
| Rated power AC/DC | VA (50 Hz)/W | See page 9 | 1/1 | 0.5/— |
| Operating range | AC/DC | (0.8...1.1)U _N | (94...138)V | — |
| | AC | (184...264)V | — | (184...264)V |
| | DC | (0.8...1.2)U _N | — | — |
| Holding voltage | AC/DC | 0.6 U _N / 0.6 U _N | 0.6 U _N / 0.6 U _N | |
| Must drop-out voltage | AC/DC | 0.1 U _N / 0.05 U _N | 44 V | 72 V |

Technical data

| | | | |
|--|--------|-----------------------|----------------------|
| Mechanical life AC/DC | cycles | 10 · 10 ⁶ | 10 · 10 ⁶ |
| Electrical life at rated load AC1 | cycles | 60 · 10 ³ | 60 · 10 ³ |
| Operate/release time | ms | 5/6 | 5/6 |
| Insulation between coil and contacts (1.2/50 μs) | kV | 6 (8 mm) | 6 (8 mm) |
| Dielectric strength between open contacts | V AC | 1000 | 1000 |
| Ambient temperature range (U _N ≤ 60 V / > 60 V) | °C | -40...+70 / -40...+55 | - / -40...+55 |
| Protection category | | IP 20 | IP 20 |

Approvals relay (according to type)



Single output - solid state relay interface modules, 6.2 mm wide.

Ideal interface for PLC and electronic systems

- DC, AC or AC/DC input versions
- Supplied with integral coil indication and protection circuit
- Silent, high switching speed and long electrical life
- Instant ejection of relay using plastic retaining clip
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

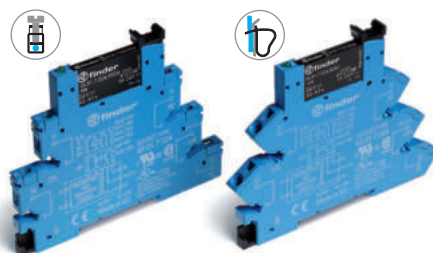
B

38.81/38.81.3
Screw terminal

38.91/38.91.3
Screwless terminal

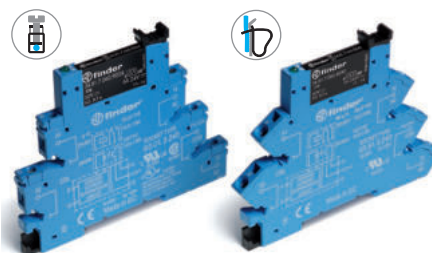


38.81/38.91

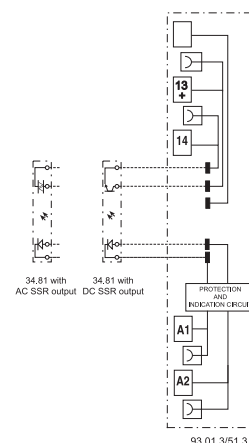
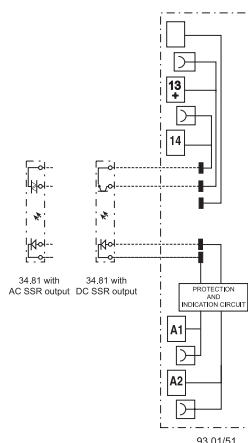


- AC or DC output switching
- SSR relay - DC input voltage
- Screw terminal and screwless terminal
- 35 mm rail (EN 60715) mounting

38.81.3/38.91.3



- Leakage current suppression
- AC or DC output
- SSR relay - AC or AC/DC input voltage
- Screw terminal and screwless terminal
- 35 mm rail (EN 60715) mounting



For outline drawing see page 13

Output specification

| | | 1 NO (SPST-NO) | | | 1 NO (SPST-NO) | | |
|--|-----------------|----------------|--------------|--------------|----------------|--------------|--------------|
| Contact configuration | | | | | | | |
| Rated current/ Maximum peak current (10 ms) | A | 6/50 | 0.1/0.5 | 2/80 | 6/50 | 0.1/0.5 | 2/80 |
| Rated voltage/ Maximum blocking voltage | V | 24/33 DC | 48/53 DC | 240/— AC | 24/33 DC | 48/53 DC | 240/— AC |
| Switching voltage range | V | (1.5...33)DC | (1.5...53)DC | (12...275)AC | (1.5...33)DC | (1.5...53)DC | (12...275)AC |
| Repetitive peak off-state voltage | V _{pk} | — | — | 800 | — | — | 800 |
| Minimum switching current | mA | 1 | 0.05 | 35 | 1 | 0.05 | 35 |
| Max. "OFF-state" leakage current | mA | 0.001 | 0.001 | 1.5 | 0.001 | 0.001 | 1.5 |
| Max. "ON-state" voltage drop | V | 0.4 | 1 | 1.6 | 0.4 | 1 | 1.6 |

Input specification

| | | | | | | | |
|-----------------------------------|---------|---------------------------|--|--|-------------|--|--|
| Nominal voltage (U _N) | V AC | — | | | 230...240 | | |
| | V DC | 6 - 24 - 60 | | | — | | |
| | V AC/DC | (110...125) - (220...240) | | | 110...125 | | |
| Operating range | V DC | See page 10 | | | See page 10 | | |
| Control current | mA | See page 10 | | | See page 10 | | |
| Release voltage | V DC | See page 10 | | | See page 10 | | |

Technical data

| | | | | | | | |
|--|------|-----------|-----------|-------|-----------|-----------|-------|
| Operate/release time: ON/OFF (DC input) | ms | 0.2/0.6 | 0.04/0.11 | 12/12 | 0.2/0.6 | 0.04/0.11 | 12/12 |
| Dielectric strength between input/output | V AC | 2500 | | | 2500 | | |
| Ambient temperature range | °C | -20...+55 | | | -20...+55 | | |
| Environmental protection | | IP20 | | | IP20 | | |

Approvals relay (according to type)



Slim timed interface module, 6.2 mm wide.
1 pole, 6 A - electromechanical relay
1 output, 2 A DC or AC - solid state relay

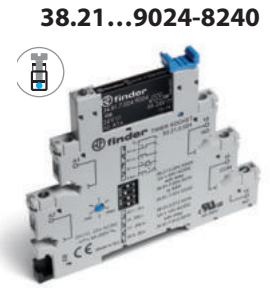
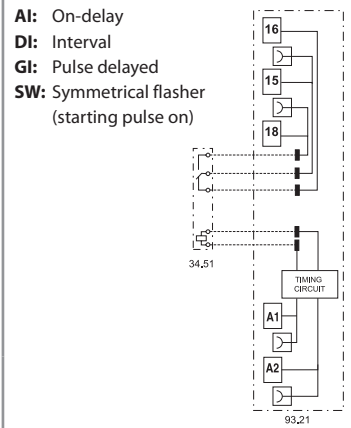
- Electromechanical or solid state output
- Multi-functions timer
- AC/DC supply
- 4 time scales from 0.1 s to 6 h
- Instant ejection of relay using plastic retaining clip
- 6.2 mm wide, 35 mm rail (EN 60715) mounting

38.21
Screw terminal



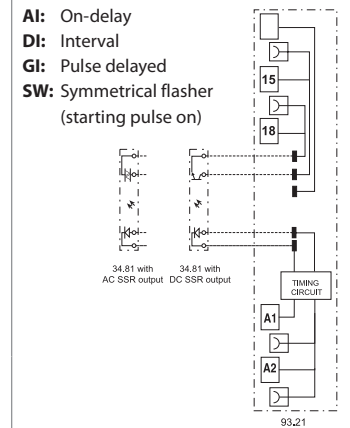
38.21

- 1 pole electromechanical output relay
- 12 or 24 V AC/DC supply
- Screw terminal
- 35 mm rail (EN 60715) mounting



38.21...9024-8240

- DC or AC solid state output relays
- 24 V AC/DC supply voltage
- Screw terminal
- 35 mm rail (EN 60715) mounting



For outline drawing see page 13

| Contact specification | | | |
|---|--------------------|--|---------------------|
| Contact configuration | | 1 CO (SPDT) | |
| Rated current/ Maximum peak current | A | 6/10 | |
| Rated voltage/ Maximum switching voltage | V AC | 250/400 | |
| Rated load AC1 | VA | 1500 | |
| Breaking capacity DC1: 30/110/220 V | A | 6/0.2/0.12 | |
| Minimum switching load | mW (V/mA) | 500 (12/10) | |
| Standard contact material | | AgNi | |
| Output specification | | DC output (...9024) | AC output (...8240) |
| Output configuration | | 1 NO (SPST-NO) | 1 NO (SPST-NO) |
| Rated current/Maximum peak current | A | 6/50 | 2/80 |
| Rated voltage/ Maximum blocking voltage | V | (24/33)DC | (240/—)AC |
| Switching voltage range | V | (1.5...33)DC | (12...275)AC |
| Repetitive peak off-state voltage | V _{pk} | — | 800 |
| Minimum switching current | mA | 1 | 35 |
| Max. "OFF-state" leakage current | mA | 0.001 | 1.5 |
| Max. "ON-state" voltage drop | V | 0.4 | 1.6 |
| Supply specification | | | |
| Nominal voltage (U _N) | V AC (50/60 Hz)/DC | 12 - 24 | |
| Rated power | VA/W | 0.5 | |
| Operating range | AC | (0.8...1.1)U _N | |
| | DC | (0.8...1.1)U _N | |
| Technical data | | | |
| Specified time range | | (0.1...3)s, (3...60)s, (1...20)min, (0.3...6)h | |
| Repeatability | % | ± 1 | |
| Recovery time | ms | ≤ 50 | |
| Setting accuracy-full range | % | 5% | |
| Ambient temperature | °C | -40...+70 | -20...+55 |
| Protection category | | IP 20 | |
| Approvals relay (according to type) | | | |

Electromechanical relay interface modules,
14 mm wide.

38.01 and 38.11 - 1 Pole 16 A
38.52 and 38.62 - 2 Pole 8 A

Ideal interface for PLC and electronic systems

- Sensitive DC coil or AC/DC coil versions
- Integral coil indication and protection circuit
- Instant ejection of relay using plastic retaining clip
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

B

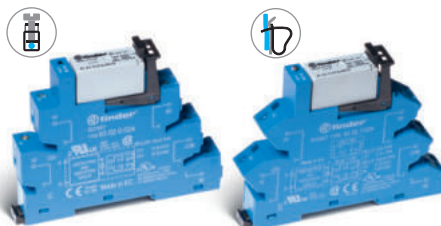
38.01/52
Screw terminal



38.11/62
Screwless terminal

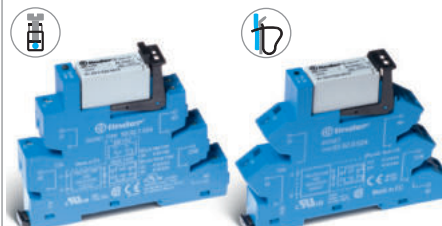


38.01/38.11

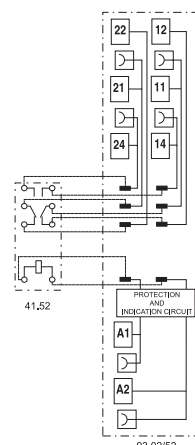
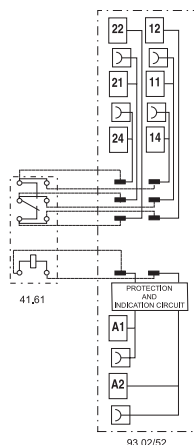


- Screw terminal and screwless terminal
- 1 pole electromechanical relay
- 35 mm rail (EN 60715) mounting

38.52/38.62



- Screw terminal and screwless terminal
- 2 pole electromechanical relay
- 35 mm rail (EN 60715) mounting



* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).

For outline drawing see page 13

Contact specification

| | | | |
|---|-----------|-------------|-------------|
| Contact configuration | | 1 CO (SPDT) | 2 CO (DPDT) |
| Rated current/Maximum peak current | A | 16*/30 | 8/15 |
| Rated voltage/Maximum switching voltage | V AC | 250/400 | 250/400 |
| Rated load AC1 | VA | 4000 | 2000 |
| Rated load AC15 (230 V AC) | VA | 750 | 400 |
| Single phase motor rating (230 V AC) | kW | 0.5 | 0.3 |
| Breaking capacity DC1: 30/110/220 V | A | 16/0.3/0.12 | 8/0.3/0.12 |
| 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/DC | 24 - 60 - (110...125) - (220...240) | 24 - 60 - (110...125) - (220...240) |
| | V AC | 230...240 | 230...240 |
| | V DC | 12 - 24 - 60 | 12 - 24 - 60 |
| Rated power AC/DC | VA (50 Hz)/W | See page 9 | See page 9 |
| Operating range | AC/DC | 0.8...1.1 | 0.8...1.1 |
| | DC | (0.8...1.2)U _N | (0.8...1.2)U _N |
| Holding voltage | AC/DC | 0.6 U _N / 0.6 U _N | 0.6 U _N / 0.6 U _N |
| Must drop-out voltage | AC/DC | 0.1 U _N / 0.05 U _N | 0.1 U _N / 0.05 U _N |

Technical data

| | | | |
|--|--------|-----------------------|-----------------------|
| Mechanical life AC/DC | cycles | 10 · 10 ⁶ | 10 · 10 ⁶ |
| Electrical life at rated load AC1 | cycles | 50 · 10 ³ | 60 · 10 ³ |
| Operate/release time | ms | 8/10 | 8/10 |
| Insulation between coil and contacts (1.2/50 μs) | kV | 6 (8 mm) | 6 (8 mm) |
| Dielectric strength between open contacts | V AC | 1000 | 1000 |
| Ambient temperature range (U _N ≤ 60 V / > 60 V) | °C | -40...+70 / -40...+55 | -40...+70 / -40...+55 |
| Protection category | | IP 20 | IP 20 |

Approvals relay (according to type)



Single output - solid state relay interface modules, 14 mm wide.

Ideal interface for PLC and electronic systems

- DC input versions
- Supplied with integral coil indication and protection circuit
- Silent, high switching speed and long electrical life
- Instant ejection of relay using plastic retaining clip
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

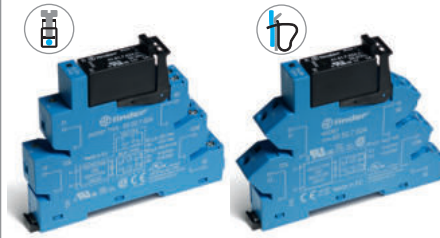
38.31
Screw terminal



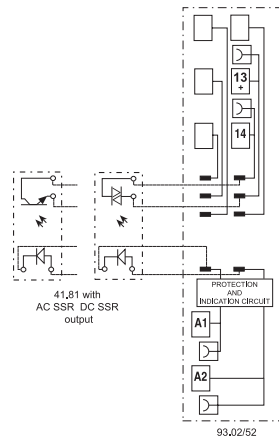
38.41
Screwless terminal



38.31/38.41



- Screw terminal and screwless terminal
- AC or DC output switching
- SSR relay - DC input voltage
- 35 mm rail (EN 60715) mounting



For outline drawing see page 13

Output specification

| | | 1 NO (SPST-NO) | 1 NO (SPST-NO) |
|--|-----------------|----------------|----------------|
| Contact configuration | | 1 NO (SPST-NO) | 1 NO (SPST-NO) |
| Rated current/ Maximum peak current (10 ms) | A | 5/40 | 3/40 |
| Rated voltage/ Maximum blocking voltage | V | (24/35)DC | (240/—)AC |
| Switching voltage range | V | (1.5...24)DC | (12...275)AC |
| Repetitive peak off-state voltage | V _{pk} | — | 600 |
| Minimum switching current | mA | 1 | 50 |
| Max. "OFF-state" leakage current | mA | 0.01 | 1 |
| Max. "ON-state" voltage drop | V | 0.3 | 1.1 |

Input specification

| | | |
|-----------------------------------|---------|-------------|
| Nominal voltage (U _N) | V AC/DC | 24 |
| | V DC | 12 - 24 |
| Operating range | V DC | See page 10 |
| Control current | mA | See page 10 |
| Release voltage | V DC | See page 10 |

Technical data

| | | | |
|--|------|-----------|-------|
| Operate/release time: ON/OFF (DC input) | ms | 0.05/0.25 | 12/12 |
| Dielectric strength between input/output | V AC | 2500 | |
| Ambient temperature range | °C | -20...+55 | |
| Environmental protection | | IP20 | |

Approvals relay (according to type)

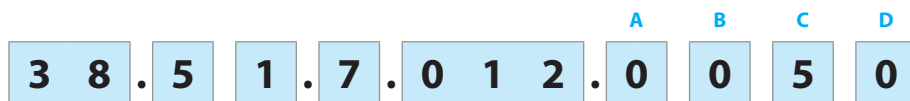


Ordering information

Electromechanical relay - 1 or 2 Pole

Example: 38 series screw terminal relay interface module, 1 CO (SPDT), sensitive 12 V DC coil.

B



Series

Type

- 0 = Electromechanical 16 A relay, with screw terminal
- 1 = Electromechanical 16 A relay, with screwless terminal
- 2 = Timer multifunction (AI, DI, GI, SW), with screw terminal
- 5 = Electromechanical relay, with screw terminal
- 6 = Electromechanical relay, with screwless terminal

No. of poles

- 1 = 1 pole, 6 or 16 A
- 2 = 2 pole, 8 A

Coil version

- 0 = AC (50/60 Hz)/DC
- 3 = Leakage current suppression for (110...125)V AC/DC - (230...240)V AC
- 7 = Sensitive DC, (6, 12, 24, 48, 60)V only
- 8 = AC (50/60 Hz)

Coil voltage

See coil specifications

D: Special versions

0 = Standard

C: Options

- 5 = Standard DC
- 6 = Standard AC or AC/DC

B: Contact circuit

0 = CO (nPDT)

A: Contact material

- 0 = AgNi Standard
- 4 = AgSnO₂
- 5 = AgNi + Au

Selecting features and options: only combinations in the same row are possible.

| Type | Coil version | A | B | C | D |
|----------|--------------|-----------|---|---|---|
| 38.01/11 | 7 | 0 - 4 | 0 | 5 | 0 |
| 38.01/11 | 0 - 8 | 0 - 4 | 0 | 6 | 0 |
| 38.51/61 | 7 | 0 - 4 - 5 | 0 | 5 | 0 |
| 38.51/61 | 0 - 3 - 8 | 0 - 4 - 5 | 0 | 6 | 0 |
| 38.52/62 | 7 | 0 - 5 | 0 | 5 | 0 |
| 38.52/62 | 0 - 8 | 0 - 5 | 0 | 6 | 0 |
| 38.21 | 0 | 0 | 0 | 6 | 0 |

Ordering information

Solid state relay - Single output - 6.2 & 14 mm wide

Example: 38 series screw terminal SSR relay interface module, 6.2 mm wide, 6 A output, 24 V DC input.



Series

Type

- 21 = Timer SSR 6.2 mm wide, with screw terminal
- 31 = SSR 14 mm wide, with screw terminal
- 41 = SSR 14 mm wide, with screwless terminal
- 81 = SSR 6.2 mm wide, with screw terminal
- 91 = SSR 6.2 mm wide, with screwless terminal

Input version

- 0 = AC/DC
- 3 = Leakage current suppression for (110...125)V AC/DC and (230...240)V AC SSR only
- 7 = DC, (6, 24, 60)V SSR only

Input voltage

See input specifications

Output version

- 9024 = 6 A - 24 V DC (38.21, 38.81 & 38.91)
- 9024 = 5 A - 24 V DC (38.31 & 38.41)
- 7048 = 0.1 A - 48 V DC (38.81 & 38.91)
- 8240 = 2 A - 240 V AC (38.21, 38.81 & 38.91)
- 8240 = 3 A - 240 V AC (38.31 & 38.41)



Selecting features and options: only combinations in the same row are possible.

| Type | Input version | Output version |
|----------|---------------|--------------------|
| 38.81/91 | 7 | 9024 - 7048 - 8240 |
| 38.81/91 | 0 - 3 | 9024 - 7048 - 8240 |
| 38.31/41 | 0 - 7 | 9024 - 8240 |
| 38.21 | 0 | 9024 - 8240 |

Technical data - 1 & 2 Pole Electromechanical Relays

Insulation

| | | | | |
|------------------------------------|---------------------------------|----|-----|-----|
| Insulation according to EN 61810-1 | insulation rated voltage | V | 250 | 400 |
| | rated impulse withstand voltage | kV | 4 | 4 |
| | pollution degree | | 3 | 2 |
| | overvoltage category | | III | III |

| | | |
|---|------|----------|
| Insulation between coil and contacts (1.2/50 μ s) | kV | 6 (8 mm) |
| Dielectric strength between open contacts | V AC | 1000 |

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 μ s) on A1 - A2 (differential mode) according to EN 61000-4-5 | level 3 (2 kV) |

Other data

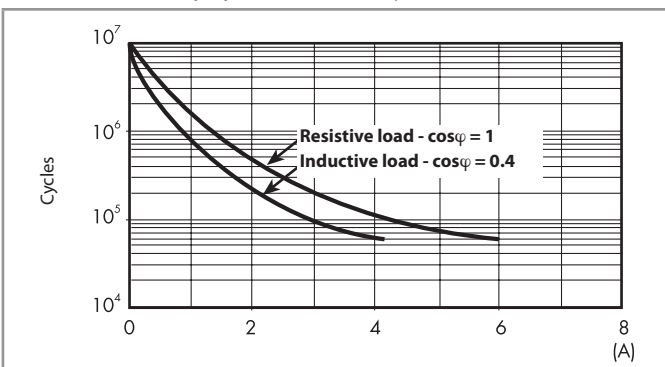
| | | 1 Pole 6 A | 1 Pole 16 A - 2 Pole 8 A |
|---|-------------------------|------------|--------------------------|
| Bounce time: NO/NC | ms | 1/6 | 2/5 |
| Vibration resistance (10...55)Hz: NO/NC | g | 10/5 | 15/2 |
| Power lost to the environment | without contact current | W | 0.2 (12 V) - 0.9 (240 V) |
| | with rated current | W | 0.5 (12 V) - 1.5 (240 V) |

Terminals

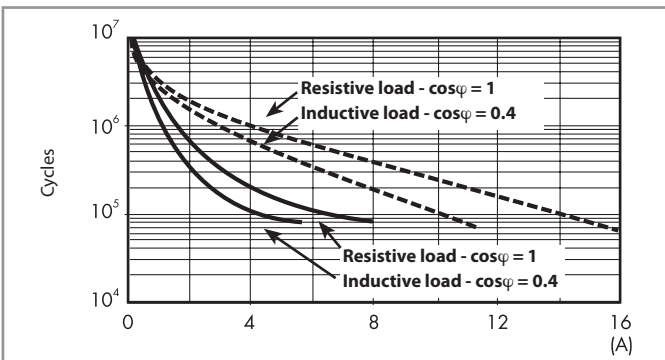
| | | 38.21 / 38.51 | | 38.61 | |
|-------------------|-----------------|-------------------|-------------------|---------------|----------------|
| Wire strip length | mm | 10 | | 10 | |
| ⊖ Screw torque | Nm | 0.5 | | — | |
| Max. wire size | | solid cable | stranded cable | solid cable | stranded cable |
| | mm ² | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 | 1 x 2.5 |
| | AWG | 1 x 14 / 2 x 16 | 1 x 14 / 2 x 16 | 1 x 14 | 1 x 14 |
| | | 38.01 / 38.52 | | 38.11 / 38.62 | |
| Wire strip length | mm | 10 | | 10 | |
| ⊖ Screw torque | Nm | 0.5 | | — | |
| Max. wire size | | solid cable | stranded cable | solid cable | stranded cable |
| | mm ² | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 | 1 x 2.5 |
| | AWG | 1 x 14 / 2 x 16 | 1 x 14 / 2 x 16 | 1 x 14 | 1 x 14 |
| | | | | | |

Contact specification - 1 & 2 Pole Electromagnetic Relays

F 38 - Electrical life (AC) v contact current, 1 Pole 6 A

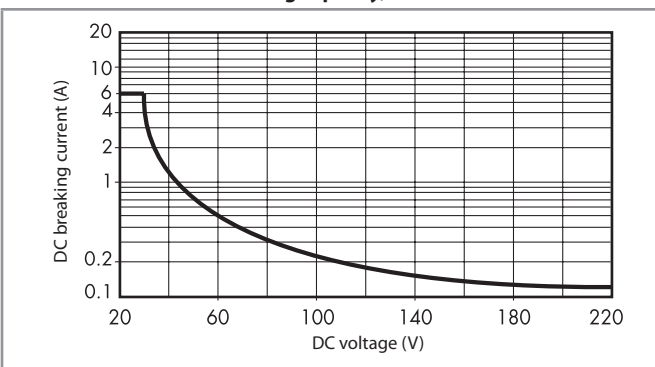


F 38 - Electrical life (AC) v contact current, 1 Pole 16 A and 2 Pole 8 A

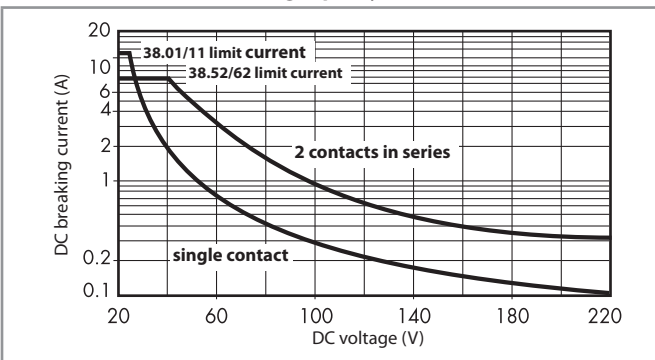


—————: 2 Pole 8 A
—————: 1 Pole 16 A

H 38 - Maximum DC1 breaking capacity, 1 Pole 6 A



H 38 - Maximum DC1 breaking capacity, 1 Pole 16 A and 2 Pole 8 A



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 60 \cdot 10^3$ (1 Pole) or $\geq 80 \cdot 10^3$ (2 Pole) 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 - 1 Pole 6 A Electromechanical Relay

Coil data sensitive DC, 1 Pole

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | W |
| 6 | 7.006 | 4.8 | 7.2 | 35 | 0.2 |
| 12 | 7.012 | 9.6 | 14.4 | 15.2 | 0.2 |
| 24 | 7.024 | 19.2 | 28.8 | 10.4 | 0.3 |
| 48 | 7.048 | 38.4 | 57.6 | 6.3 | 0.3 |
| 60 | 7.060 | 48 | 72 | 7 | 0.4 |

Coil data AC/DC, 1 Pole

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | VA/W |
| 12 | 0.012 | 9.6 | 13.2 | 16 | 0.2/0.2 |
| 24 | 0.024 | 19.2 | 26.4 | 12 | 0.3/0.2 |
| 48 | 0.048 | 38.4 | 52.8 | 6.9 | 0.3/0.3 |
| 60 | 0.060 | 48 | 66 | 7 | 0.5/0.5 |
| 110...125 | 0.125 | 88 | 138 | 5(*) | 0.6/0.6(*) |
| 220...240 | 0.240 | 176 | 264 | 4(*) | 1/0.9(*) |

(*) Rated coil consumption and power consumption values relate to $U_N = 125$ and 240 V.

Coil data AC, 1 Pole (indicated for max ambient temperature +70 °C)

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | VA/W |
| (230...240) AC | 8.240 | 184 | 264 | 3 | 0.7/0.3 |

Coil data, leakage current suppression types, 1 Pole

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | VA/W |
| (110...125) AC/DC | 3.125 | 94 | 138 | 8(*) | 1/1(*) |
| (230...240) AC | 3.240 | 184 | 264 | 7(*) | 1.7/0.5(*) |

(*) Rated coil consumption and power consumption values relate to $U_N = 125$ and 240 V.

The 38 Series interface modules (supply version 3) have built-in leakage current suppression to address industry concerns of the contacts not dropping-out when there is residual current in the circuit; at (110...125)V AC and (230...240)V AC.

This problem can occur, for example, when connecting the interface modules to PLCs with triac outputs or when connecting via relatively long cables.

Coil specifications - 1 Pole 16 A and 2 Pole 8 A Electromechanical Relay

Coil data sensitive DC, 1 Pole 16 A and 2 Pole 8 A

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | W |
| 12 | 7.012 | 9.6 | 14.4 | 41 | 0.5 |
| 24 | 7.024 | 19.2 | 28.8 | 19.5 | 0.5 |
| 60 | 7.060 | 48 | 72 | 8 | 0.5 |

Coil data AC/DC, 1 Pole 16 A and 2 Pole 8 A

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | W |
| 24 | 0.024 | 19.2 | 26.4 | 20 | 0.5/0.5 |
| 60 | 0.060 | 48 | 66 | 7.1 | 0.5/0.5 |
| 110...125 | 0.125 | 88 | 138 | 4.6 | 0.6/0.6 |
| 220...240 | 0.240 | 184 | 264 | 3.8 | 0.9/0.9 |

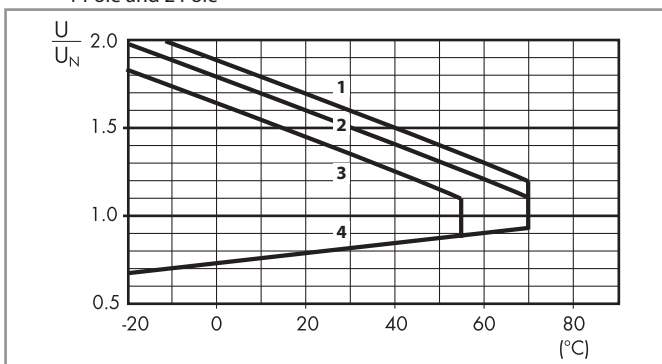
Coil data AC, 1 Pole 16 A and 2 Pole 8 A

| Nominal voltage U_N | Coil code | Operating range | | Rated coil consumption I at U_N | Power consumption P at U_N |
|--------------------------|--------------|-----------------|-----------|--------------------------------------|---------------------------------|
| | | U_{min} | U_{max} | | |
| V | | V | V | mA | VA/W |
| 230...240 | 8.230 | 184 | 264 | 5.3 | 1.2/0.6 |

Coil specification - 1 & 2 Pole Electromagnetic Relays



R 38 - DC coil operating range v ambient temperature

1 Pole and 2 Pole



- 1 - Max. permitted coil voltage at nominal load (DC coil).
- 2 - Max. permitted coil voltage at nominal load (AC/DC coils $U \leq 60$ V).
- 3 - Max. permitted coil voltage at nominal load (AC/DC coils $U > 60$ V).
- 4 - Min pick-up voltage with coil at ambient temperature.

Technical data - Solid State Relays

| Other data | | 38.81/38.91 | | 38.31/38.41 | |
|---|------------------------|-------------------|-------------------|-------------------------------|----------------|
| Power lost to the environment | without output current | W | 0.25 (24 V DC) | 0.5 | |
| | with rated current | W | 0.4 | 2.2 (DC output)/3 (AC output) | |
| Terminals | | 38.81 | | 38.91 | |
| Wire strip length | mm | 10 | | 10 | |
|  Screw torque | Nm | 0.5 | | — | |
| Max. wire size | | solid cable | stranded cable | solid cable | stranded cable |
| | mm ² | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 | 1 x 2.5 |
| | AWG | 1 x 14 / 2 x 16 | 1 x 14 / 2 x 16 | 1 x 14 | 1 x 14 |
| | | 38.31 | | 38.41 | |
| Wire strip length | mm | 10 | | 10 | |
|  Screw torque | Nm | 0.5 | | — | |
| Max. wire size | | solid cable | stranded cable | solid cable | stranded cable |
| | mm ² | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 | 1 x 2.5 |
| | AWG | 1 x 14 / 2 x 16 | 1 x 14 / 2 x 16 | 1 x 14 | 1 x 14 |
| | | | | | |

Input specifications - Solid State Relays type 38.81 and 38.91 - 6.2 mm wide

Input data DC

| Nominal voltage U _N | Supply code | Operating range | | Release voltage U | Rated coil consumption I at U _N | Power consumption P |
|-----------------------------------|-------------|------------------|------------------|----------------------|---|------------------------|
| | | U _{min} | U _{max} | | | |
| V | | V | V | V | mA | W |
| 6 | 7.006 | 5 | 7.2 | 2.4 | 7 | 0.2 |
| 24 | 7.024 | 16.8 | 30 | 10 | 10.5 | 0.3 |
| 60 | 7.060 | 35.6 | 72 | 20 | 6.5 | 0.4 |

Input data AC/DC

| Nominal voltage U _N | Supply code | Operating range | | Release voltage U | Rated coil consumption I at U _N | Power consumption P |
|-----------------------------------|-------------|------------------|------------------|----------------------|---|------------------------|
| | | U _{min} | U _{max} | | | |
| V | | V | V | V | mA | VA/W |
| 110...125 | 0.125 | 88 | 138 | 22 | 5.5* | 0.7/0.7 |
| 220...240 | 0.240 | 184 | 264 | 44 | 3.5* | 1/0.9 |

(*) Rated coil consumption and power consumption values relate to U_N = 125 and 240 V.

Input data - Leakage current suppression types

| Nominal voltage U _N | Supply code | Operating range | | Release voltage U | Rated coil consumption I at U _N | Power consumption P at U _N |
|-----------------------------------|-------------|------------------|------------------|----------------------|---|--|
| | | U _{min} | U _{max} | | | |
| V | | V | V | V | mA | W |
| 110...125 AC/DC | 3.125 | 94 | 138 | 44 | 8(*) | 1/1(*) |
| 230...240 AC | 3.240 | 184 | 264 | 72 | 6.5(*) | 1.6/0.6(*) |

(*) Rated coil consumption and power consumption values relate to U_N = 125 and 240 V.

The 38 Series interface modules (supply version 3) have built-in leakage current suppression to address industry concerns of the contacts not dropping-out when there is residual current in the circuit; at (110...125)V AC and (230...240)V AC.

This problem can occur, for example, when connecting the interface modules to PLCs with triac outputs or when connecting via relatively long cables.

Input specification - Solid State Relay types 38.31 and 38.41 - 14 mm wide

Input data DC

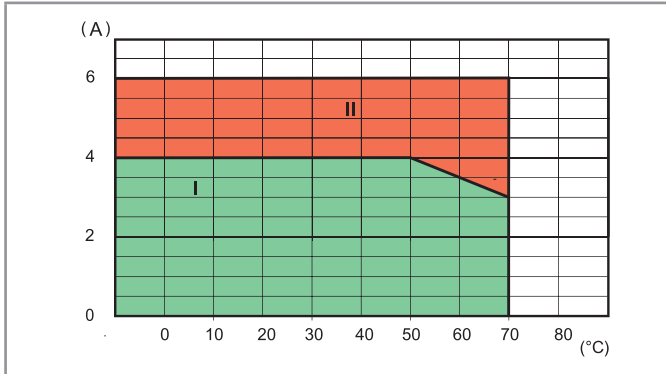
| Nominal voltage U _N | Supply code | Operating range | | Release voltage U | Rated coil consumption I at U _N | Power consumption P |
|-----------------------------------|-------------|------------------|------------------|----------------------|---|------------------------|
| | | U _{min} | U _{max} | | | |
| V | | V | V | V | mA | W |
| 12 | 7.012 | 9.6 | 18 | 5 | 9 | 0.2 |
| 24 | 7.024 | 16.8 | 30 | 5 | 12 | 0.3 |

Input data AC/DC

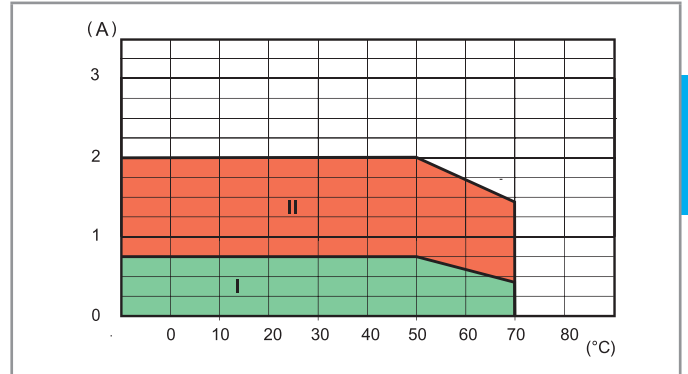
| Nominal voltage U _N | Supply code | Operating range | | Release voltage U | Rated coil consumption I at U _N | Power consumption P |
|-----------------------------------|-------------|------------------|------------------|----------------------|---|------------------------|
| | | U _{min} | U _{max} | | | |
| V | | V | V | V | mA | W |
| 24 | 0.024 | 16.8 | 30 | 9 | 16.5 | 0.3 |

Output specification - Solid State Relays

L 34-1 - Output DC current v ambient temperature
38.x1.x.xxx.9024 (only 38.81/91/21)



L 34 - Output AC current v ambient temperature
38.x1.x.xxx.8240 (only 38.81/91/21)



I: SSR installed as a group (without gap between sockets)

II: SSR installed individually in free air, or with a gap ≥ 9 mm, which implies a not significant influence from nearby components

Max recommended switching frequency (Cycles/Hour, with 50% Duty-cycle) at ambient temperature 50°C, single mounting (only 38.81/91/21)

| Load | 38.x1.x.xxx.9024 | 38.x1.x.xxx.8240 | 38.x1.x.xxx.7048 |
|---------------------------|------------------|------------------|------------------|
| 24 V 6 A DC1 | 180 000 | — | — |
| 24 V 3 A DC L/R = 10 ms | 5000 | — | — |
| 24 V 2 A DC L/R = 40 ms | 3600 | — | — |
| 24 V 1 A DC L/R = 40 ms | 6500 | — | — |
| 24 V 0.8 A DC L/R = 40 ms | 9000 | — | — |
| 24 V 1.5 A DC L/R = 80 ms | 3250 | — | — |
| 230 V 2 A AC1 | — | 60 000 | — |
| 230 V 1.25 A AC15 | — | 3600 | — |
| 48 V 0.1 A DC1 | — | — | 60 000 |

Additional technical data - Timed Interface Module

EMC specifications

| Type of test | Reference standard | |
|---|--------------------|-------------------|
| Electrostatic discharge | contact discharge | EN 61000-4-2 4 kV |
| | air discharge | EN 61000-4-2 8 kV |
| Radio-frequency electromagnetic field (80 ÷ 1000 MHz) | EN 61000-4-3 | 10 V/m |
| Fast transients (burst) (5-50 ns, 5 kHz) on Supply terminals | EN 61000-4-4 | 4 kV |
| Surges (1.2/50 µs) on Supply terminals | common mode | EN 61000-4-5 4 kV |
| | differential mode | EN 61000-4-5 4 kV |
| Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals | EN 61000-4-6 | 10 V |
| Radiated and conducted emission | EN 55022 | class B |

Other data

| | EMR | SSR |
|-------------------------------|-------|-----|
| Power lost to the environment | | |
| without contact current | W 0.1 | 0.1 |
| with rated current | W 0.6 | 0.5 |

Terminals

| | 38.21 | |
|-------------------|-----------------|-------------------|
| Wire strip length | mm | 10 |
| Screw torque | Nm | 0.5 |
| Max. wire size | | solid cable |
| | mm ² | 1 x 2.5 / 2 x 1.5 |
| | AWG | 1 x 14 / 2 x 16 |
| | | stranded cable |
| | | 1 x 2.5 / 2 x 1.5 |
| | | 1 x 14 / 2 x 16 |

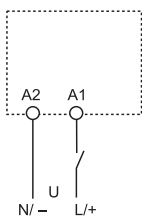
Times scales



Functions

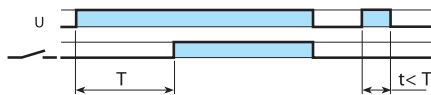
| LED | Supply voltage | NO contact/output |
|-----|----------------|-------------------------|
| | OFF | Open |
| | ON | Open (time in progress) |
| | ON | Closed |

Wiring diagram



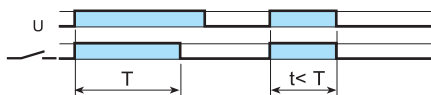
U = Supply voltage

= Output contact



(AI) On-delay.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.



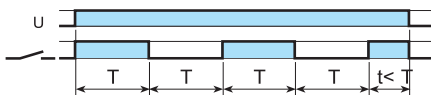
(DI) Interval.

Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.



(GI) Pulse delayed.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs after a fixed time of 0.5 s.

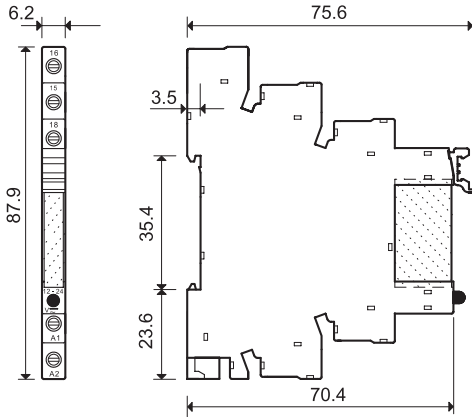


(SW) Symmetrical flasher (starting pulse on).

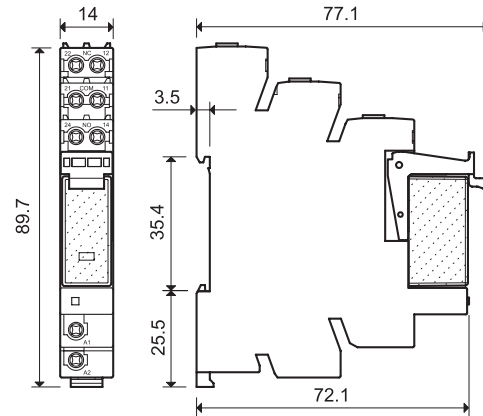
Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

Outline drawings

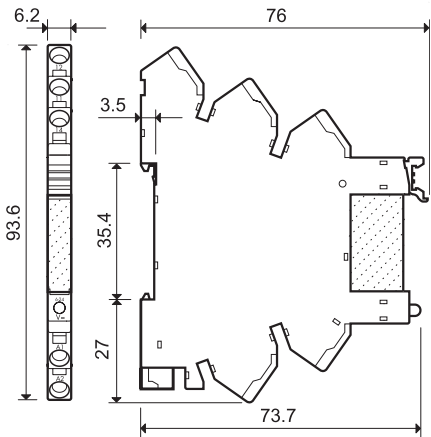
38.21
38.51 / 38.51.3
38.81 / 38.81.3
Screw terminal



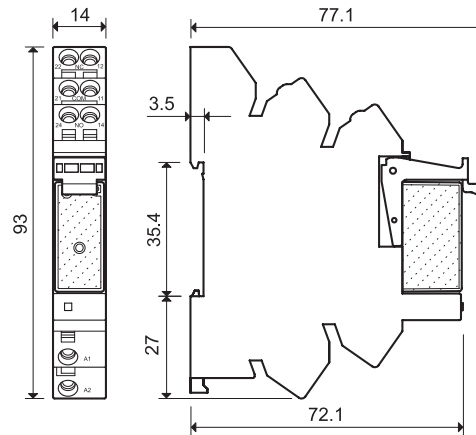
38.01
38.31
38.52
Screw terminal



38.61 / 38.61.3
38.91 / 38.91.3
Screwless terminal



38.11
38.41
38.62
Screwless terminal



Electromechanical Relay & Socket Combinations

Screw terminal - 1 Pole relay 6 A

| Interface Module Code | Coil voltage | Relay | Socket |
|-----------------------|--------------------|------------------|-------------|
| 38.51.0.012.0060 | 12 V AC/DC | 34.51.7.012.0010 | 93.01.0.024 |
| 38.51.0.024.0060 | 24 V AC/DC | 34.51.7.024.0010 | 93.01.0.024 |
| 38.51.0.048.0060 | 48 V AC/DC | 34.51.7.048.0010 | 93.01.0.060 |
| 38.51.0.060.0060 | 60 V AC/DC | 34.51.7.060.0010 | 93.01.0.060 |
| 38.51.0.125.0060 | (110...125)V AC/DC | 34.51.7.060.0010 | 93.01.0.125 |
| 38.51.0.240.0060 | (220...240)V AC/DC | 34.51.7.060.0010 | 93.01.0.240 |
| 38.51.3.125.0060 | (110...125)V AC/DC | 34.51.7.060.0010 | 93.01.3.125 |
| 38.51.3.240.0060 | (230...240)V AC | 34.51.7.060.0010 | 93.01.3.240 |
| 38.51.7.006.0050 | 6 V DC | 34.51.7.005.0010 | 93.01.7.024 |
| 38.51.7.012.0050 | 12 V DC | 34.51.7.012.0010 | 93.01.7.024 |
| 38.51.7.024.0050 | 24 V DC | 34.51.7.024.0010 | 93.01.7.024 |
| 38.51.7.048.0050 | 48 V DC | 34.51.7.048.0010 | 93.01.7.060 |
| 38.51.7.060.0050 | 60 V DC | 34.51.7.060.0010 | 93.01.7.060 |
| 38.51.8.240.0060 | (230...240)V AC | 34.51.7.060.0010 | 93.01.8.240 |

Screwless terminal - 1 Pole relay 6 A

| Interface Module Code | Coil voltage | Relay | Socket |
|-----------------------|--------------------|------------------|-------------|
| 38.61.0.012.0060 | 12 V AC/DC | 34.51.7.012.0010 | 93.51.0.024 |
| 38.61.0.024.0060 | 24 V AC/DC | 34.51.7.024.0010 | 93.51.0.024 |
| 38.61.0.125.0060 | (110...125)V AC/DC | 34.51.7.060.0010 | 93.51.0.125 |
| 38.61.0.240.0060 | (220...240)V AC/DC | 34.51.7.060.0010 | 93.51.0.240 |
| 38.61.3.125.0060 | (110...125)V AC/DC | 34.51.7.060.0010 | 93.51.3.125 |
| 38.61.3.240.0060 | (230...240)V AC | 34.51.7.060.0010 | 93.51.3.240 |
| 38.61.7.012.0050 | 12 V DC | 34.51.7.012.0010 | 93.51.7.024 |
| 38.61.7.024.0050 | 24 V DC | 34.51.7.024.0010 | 93.51.7.024 |
| 38.61.8.240.0060 | (230...240)V AC | 34.51.7.060.0010 | 93.51.8.240 |

Screw terminal - 1 Pole relay 16 A

| Interface Module Code | Coil voltage | Relay | Socket |
|-----------------------|--------------|------------------|-------------|
| 38.01.7.012.0050 | 12 V DC | 41.61.9.012.0010 | 93.02.7.024 |
| 38.01.7.024.0050 | 24 V DC | 41.61.9.024.0010 | 93.02.7.024 |
| 38.01.7.060.0050 | 60 V DC | 41.61.9.060.0010 | 93.02.7.060 |
| 38.01.0.024.0060 | 24 V AC/DC | 41.61.9.024.0010 | 93.02.0.024 |
| 38.01.0.060.0060 | 60 V AC/DC | 41.61.9.060.0010 | 93.02.0.060 |
| 38.01.0.125.0060 | 125 V AC/DC | 41.61.9.110.0010 | 93.02.0.125 |
| 38.01.0.240.0060 | 240 V AC/DC | 41.61.9.110.0010 | 93.02.0.240 |
| 38.01.8.230.0060 | 230 V AC | 41.61.9.110.0010 | 93.02.8.230 |

Screwless terminal - 1 Pole relay 16 A

| Interface Module Code | Coil voltage | Relay | Socket |
|-----------------------|--------------|------------------|-------------|
| 38.11.7.012.0050 | 12 V DC | 41.61.9.012.0010 | 93.52.7.024 |
| 38.11.7.024.0050 | 24 V DC | 41.61.9.024.0010 | 93.52.7.024 |
| 38.11.7.060.0050 | 60 V DC | 41.61.9.060.0010 | 93.52.7.060 |
| 38.11.0.024.0060 | 24 V AC/DC | 41.61.9.024.0010 | 93.52.0.024 |
| 38.11.0.060.0060 | 60 V AC/DC | 41.61.9.060.0010 | 93.52.0.060 |
| 38.11.0.125.0060 | 125 V AC/DC | 41.61.9.110.0010 | 93.52.0.125 |
| 38.11.0.240.0060 | 240 V AC/DC | 41.61.9.110.0010 | 93.52.0.240 |
| 38.11.8.230.0060 | 230 V AC | 41.61.9.110.0010 | 93.52.8.230 |

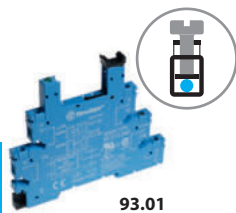
Screw terminal - 2 Pole relay 8 A

| Interface Module Code | Coil voltage | Relay | Socket |
|-----------------------|--------------------|------------------|-------------|
| 38.52.0.024.0060 | 24 V AC/DC | 41.52.9.024.0010 | 93.02.0.024 |
| 38.52.0.060.0060 | 60 V AC/DC | 41.52.9.060.0010 | 93.02.0.060 |
| 38.52.0.125.0060 | (110...125)V AC/DC | 41.52.9.110.0010 | 93.02.0.125 |
| 38.52.0.240.0060 | (220...240)V AC/DC | 41.52.9.110.0010 | 93.02.0.240 |
| 38.52.7.012.0050 | 12 V DC | 41.52.9.012.0010 | 93.02.7.024 |
| 38.52.7.024.0050 | 24 V DC | 41.52.9.024.0010 | 93.02.7.024 |
| 38.52.7.060.0050 | 60 V DC | 41.52.9.060.0010 | 93.02.7.060 |
| 38.52.8.230.0060 | (230...240)V AC | 41.52.9.110.0010 | 93.02.8.230 |

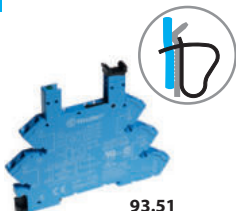
Screwless terminal - 2 Pole relay 8 A

| Interface Module Code | Coil voltage | Relay | Socket |
|-----------------------|--------------------|------------------|-------------|
| 38.62.0.024.0060 | 24 V AC/DC | 41.52.9.024.0010 | 93.52.0.024 |
| 38.62.0.060.0060 | 60 V AC/DC | 41.52.9.060.0010 | 93.52.0.060 |
| 38.62.0.125.0060 | (110...125)V AC/DC | 41.52.9.110.0010 | 93.52.0.125 |
| 38.62.0.240.0060 | (220...240)V AC/DC | 41.52.9.110.0010 | 93.52.0.240 |
| 38.62.7.012.0050 | 12 V DC | 41.52.9.012.0010 | 93.52.7.024 |
| 38.62.7.024.0050 | 24 V DC | 41.52.9.024.0010 | 93.52.7.024 |
| 38.62.7.060.0050 | 60 V DC | 41.52.9.060.0010 | 93.52.7.060 |
| 38.62.8.230.0060 | (230...240)V AC | 41.52.9.110.0010 | 93.52.8.230 |

B



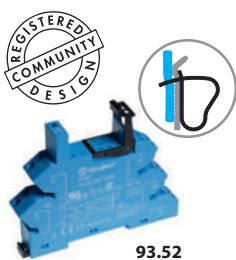
93.01



93.51




93.02

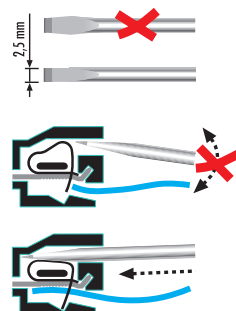


93.52

Approvals
(according to type):

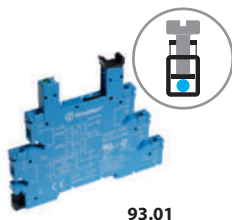


 Certain relay/socket combinations

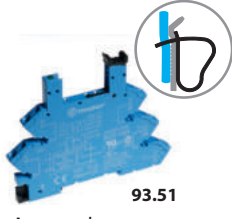


B

Solid State Relay & Socket Combinations - 6.2 mm wide



93.01

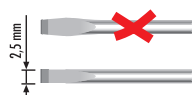


93.51

Approvals
(according to type):



Certain relay/socket combinations



Screw terminal

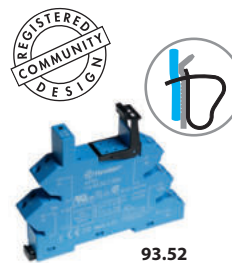
| Interface Module Code | Input voltage | Relay | Socket |
|-----------------------|--------------------|------------------|-------------|
| 38.81.7.006.xxxx | 6 V DC | 34.81.7.005.xxxx | 93.01.7.024 |
| 38.81.7.024.xxxx | 24 V DC | 34.81.7.024.xxxx | 93.01.7.024 |
| 38.81.7.060.xxxx | 60 V DC | 34.81.7.060.xxxx | 93.01.7.060 |
| 38.81.0.125.xxxx | (110...125)V AC/DC | 34.81.7.060.xxxx | 93.01.0.125 |
| 38.81.0.240.xxxx | (220...240)V AC/DC | 34.81.7.060.xxxx | 93.01.0.240 |
| 38.81.3.125.xxxx | (110...125)V AC/DC | 34.81.7.060.xxxx | 93.01.3.125 |
| 38.81.3.240.xxxx | (230...240)V AC | 34.81.7.060.xxxx | 93.01.3.240 |

Screwless terminal

| Interface Module Code | Input voltage | Relay | Socket |
|-----------------------|--------------------|------------------|-------------|
| 38.91.7.006.xxxx | 6 V DC | 34.81.7.005.xxxx | 93.51.7.024 |
| 38.91.7.024.xxxx | 24 V DC | 34.81.7.024.xxxx | 93.51.7.024 |
| 38.91.7.060.xxxx | 60 V DC | 34.81.7.060.xxxx | 93.51.7.060 |
| 38.91.0.125.xxxx | (110...125)V AC/DC | 34.81.7.060.xxxx | 93.51.0.125 |
| 38.91.0.240.xxxx | (220...240)V AC/DC | 34.81.7.060.xxxx | 93.51.0.240 |
| 38.91.3.125.xxxx | (110...125)V AC/DC | 34.81.7.060.xxxx | 93.51.3.125 |
| 38.91.3.240.xxxx | (230...240)V AC | 34.81.7.060.xxxx | 93.51.3.240 |

Example: .xxxx
.9024
.7048
.8240

Solid State Relay & Socket Combinations - 14 mm wide



93.52

Approvals
(according to type):



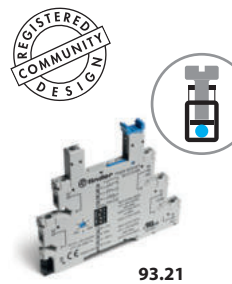
Screw terminal

| Interface Module Code | Input voltage | Relay | Socket |
|-----------------------|---------------|------------------|-------------|
| 38.31.0.024.xxxx | 24 V AC/DC | 41.81.7.024.xxxx | 93.02.0.024 |
| 38.31.7.012.xxxx | 12 V DC | 41.81.7.012.xxxx | 93.02.7.024 |
| 38.31.7.024.xxxx | 24 V DC | 41.81.7.024.xxxx | 93.02.7.024 |

Screwless terminal

| Interface Module Code | Input voltage | Relay | Socket |
|-----------------------|---------------|------------------|-------------|
| 38.41.0.024.xxxx | 24 V AC/DC | 41.81.7.024.xxxx | 93.52.0.024 |
| 38.41.7.012.xxxx | 12 V DC | 41.81.7.012.xxxx | 93.52.7.024 |
| 38.41.7.024.xxxx | 24 V DC | 41.81.7.024.xxxx | 93.52.7.024 |

SSR / EMR & Timer Socket Combinations



93.21

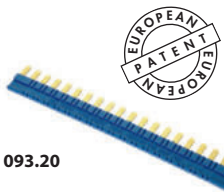
Approvals
(according to type):



Screw terminal

| Interface Module Code | Input / Coil voltage | Relay | Socket |
|-----------------------|----------------------|------------------|-------------|
| 38.21.0.012.0060 | 12 V AC/DC | 34.51.7.012.0010 | 93.21.0.024 |
| 38.21.0.024.0060 | 24 V AC/DC | 34.51.7.024.0010 | 93.21.0.024 |
| 38.21.0.024.xxxx | 24 V AC/DC | 34.81.7.024.xxxx | 93.21.0.024 |

Accessories



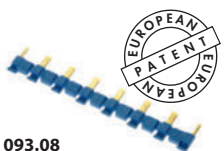
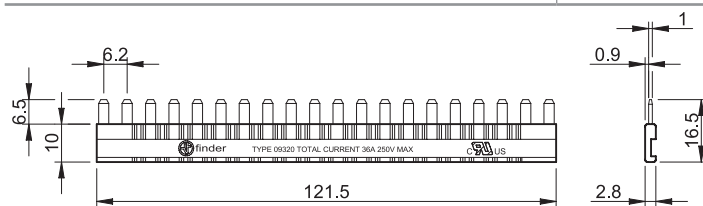
093.20

B

Approvals
(according to type):



| | | | |
|---|---------------|------------------|----------------|
| 20-way jumper link for 38.21/51/61/81/91 | 093.20 (blue) | 093.20.0 (black) | 093.20.1 (red) |
| Rated values | 36 A - 250 V | | |

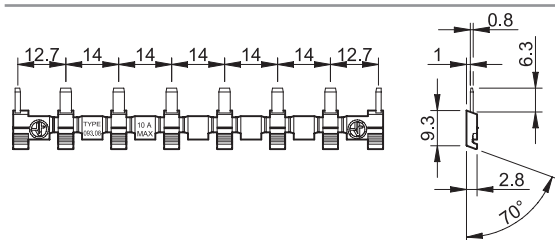


093.08

Approvals
(according to type):



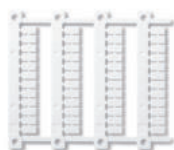
| | | | |
|---|---------------|------------------|----------------|
| 8-way jumper link for 38.01/11/31/41/52/62 | 093.08 (blue) | 093.08.0 (black) | 093.08.1 (red) |
| Rated values | 10 A - 250 V | | |



093.01

| | |
|--------------------------|--------|
| Plastic separator | 093.01 |
|--------------------------|--------|

Thickness 2 mm, required at the start and the end of a group of interfaces.
Can be used for visual separation group, must be used for:
- protective separation of different voltages of neighbouring PLC interfaces according to VDE 0106-101
- protection of cut jumper links



NEW

093.48

| | |
|--|--------|
| Sheet of marker tags for 38.21/51/61/81/91, plastic, 48 tags, 6 x 10 mm | 093.48 |
|--|--------|



060.48

| | |
|--|--------|
| Sheet of marker tags (CEMBRE Thermal transfer printers) for 38.01/11/31/41/52/62 types (48 tags), 6 x 12 mm | 060.48 |
|--|--------|