

## Features

**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 50022) mounting

38.51 / 38.51.3  
Screw terminal



38.61 / 38.61.3  
Screwless terminal



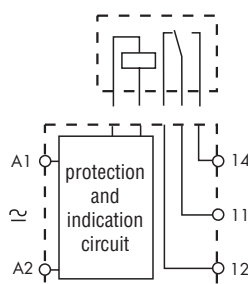
\* Special version for max ambient temperature +70°C.

For outline drawing see page 8

### 38.51/61



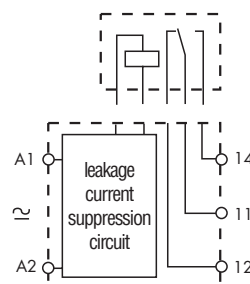
- 1 pole electromechanical relay
- Screw terminal and screwless terminal
- 35 mm rail (EN 50022) mounting



### 38.51.3 / 38.61.3



- 1 pole electromechanical relay
- Leakage current suppression
- Screw terminal and screwless terminal
- 35 mm rail (EN 50022) 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        | 1,500       | 1,500       |
| 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         | 6/0.2/0.15  | 6/0.2/0.15  |
| Minimum switching load                       | mW (V/mA) | 500 (12/10) | 500 (12/10) |
| Standard contact material                    |           | AgNi        | AgNi        |

#### Coil specification

|                                   |              |                                               |                                         |              |
|-----------------------------------|--------------|-----------------------------------------------|-----------------------------------------|--------------|
| Nominal voltage (U <sub>N</sub> ) | 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 7                                    | 1/1                                     | 0.5/—        |
| Operating range                   | AC/DC        | (0.8...1.1)U <sub>N</sub>                     | (94...138)V                             | —            |
|                                   | AC           | (184...264)V                                  | —                                       | (184...264)V |
|                                   | DC           | (0.8...1.2)U <sub>N</sub>                     | —                                       | —            |
| Holding voltage                   | AC/DC        | 0.6 U <sub>N</sub> / 0.6 U <sub>N</sub>       | 0.6 U <sub>N</sub> / 0.6 U <sub>N</sub> |              |
| Must drop-out voltage             | AC/DC        | 0.1 U <sub>N</sub> / 0.05 U <sub>N</sub>      | 44 V                                    | 92 V         |

#### Technical data

|                                                          |        |                      |                      |
|----------------------------------------------------------|--------|----------------------|----------------------|
| Mechanical life AC/DC                                    | cycles | 10 · 10 <sup>6</sup> | 10 · 10 <sup>6</sup> |
| Electrical life at rated load AC1                        | cycles | 60 · 10 <sup>3</sup> | 60 · 10 <sup>3</sup> |
| 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   | 1,000                | 1,000                |
| Ambient temperature range (U <sub>N</sub> ≤ 60 V / >60V) | °C     | -40...+70/-40...+55  | -/-40...+55          |
| Protection category                                      |        | IP 20                | IP 20                |

**Approvals relay** (according to type)



## Features

**2 Pole - 8 A electromechanical relay interface modules, 14 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 50022) mounting

38.52  
Screw terminal



38.62  
Screwless terminal



**38.52**

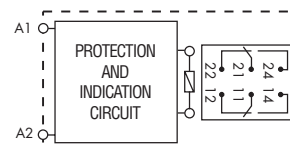
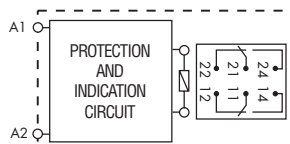


- 2 pole electromechanical relay
- Screw terminal
- 35 mm rail (EN 50022) mounting

**38.62**



- 2 pole electromechanical relay
- Screwless terminal
- 35 mm rail (EN 50022) mounting



For outline drawing see page 8

| Contact specification                                  |              |                                     |                       |
|--------------------------------------------------------|--------------|-------------------------------------|-----------------------|
| Contact configuration                                  |              | 2 CO (DPDT)                         | 2 CO (DPDT)           |
| Rated current/Maximum peak current                     | A            | 8/15                                | 8/15                  |
| Rated voltage/Maximum switching voltage                | V AC         | 250/400                             | 250/400               |
| Rated load AC1                                         | VA           | 2,000                               | 2,000                 |
| Rated load AC15 (230 V AC)                             | VA           | 400                                 | 400                   |
| Single phase motor rating (230 V AC)                   | kW           | 0.3                                 | 0.3                   |
| Breaking capacity DC1: 30/110/220 V                    | A            | 8/0.3/0.12                          | 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) |                       |
|                                                        | V DC         | 12 - 24 - 60                        | 12 - 24 - 60          |
| Rated power AC/DC                                      | VA (50 Hz)/W | See page 7                          | See page 7            |
| 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 / 0.6 $U_N$                     | 0.6 / 0.6 $U_N$       |
| Must drop-out voltage                                  | AC/DC        | 0.1 / 0.05 $U_N$                    | 0.1 / 0.05 $U_N$      |
| Technical data                                         |              |                                     |                       |
| Mechanical life AC/DC                                  | cycles       | $30 \cdot 10^6$                     | $30 \cdot 10^6$       |
| Electrical life at rated load AC1                      | cycles       | $80 \cdot 10^3$                     | $80 \cdot 10^3$       |
| Operate/release time                                   | ms           | 8 / 10                              | 8 / 10                |
| Insulation between coil and contacts (1.2/50 $\mu$ s)  | kV           | 6 (8 mm)                            | 6 (8 mm)              |
| Dielectric strength between open contacts              | V AC         | 1,000                               | 1,000                 |
| Ambient temperature range ( $U_N \leq 60$ V / $>60$ V) | °C           | -40...+70 / -40...+55               | -40...+70 / -40...+55 |
| Protection category                                    |              | IP 20                               | IP 20                 |
| Approvals relay (according to type)                    |              |                                     |                       |

## Features

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 50022) mounting

38.81 / 38.81.3  
Screw terminal



38.91 / 38.91.3  
Screwless terminal

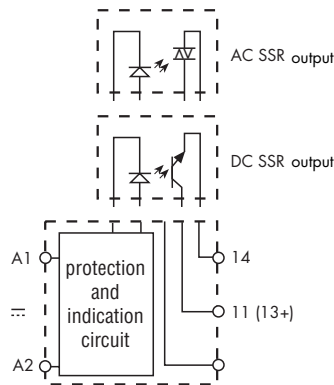


For outline drawing see page 8

### 38.81/38.91



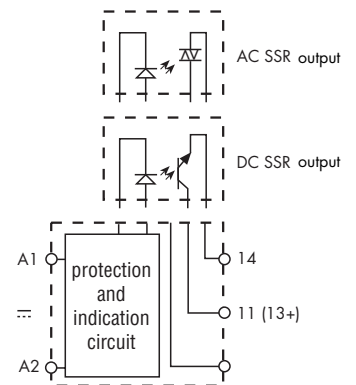
- AC or DC output switching
- SSR relay - DC input voltage
- Screw terminal and screwless terminal
- 35 mm rail (EN 50022) mounting



### 38.81.3/38.91.3



- AC or DC output - Leakage current suppression
- SSR relay - AC or AC/DC input voltage
- Screw terminal and screwless terminal
- 35 mm rail (EN 50022) mounting



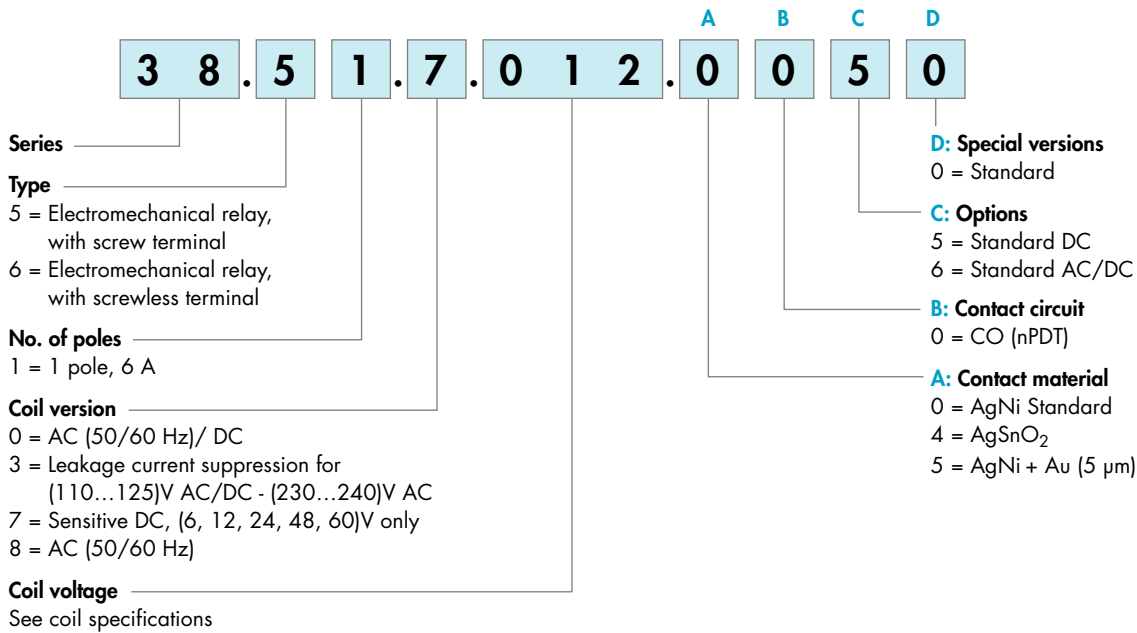
| Output circuit                             |         |                                                                                                                  |              |              |              |              |              |
|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Rated current/Maximum peak current (10 ms) | A       | 2/20                                                                                                             | 0.1/0.5      | 2/40         | 2/20         | 0.1/0.5      | 2/40         |
| Rated voltage/Maximum blocking voltage     | V       | 24/33 DC                                                                                                         | 48/60 DC     | 240/275 AC   | 24/33 DC     | 48/60 DC     | 240/275 AC   |
| Switching voltage range                    | V       | (1.5...24)DC                                                                                                     | (1.5...48)DC | (12...240)AC | (1.5...24)DC | (1.5...48)DC | (12...240)AC |
| Minimum switching current                  | mA      | 1                                                                                                                | 0.05         | 22           | 1            | 0.05         | 22           |
| Max. "OFF-state" leakage current           | mA      | 0.001                                                                                                            | 0.001        | 1.5          | 0.001        | 0.001        | 1.5          |
| Max. "ON-state" voltage drop               | V       | 0.12                                                                                                             | 1            | 1.6          | 0.12         | 1            | 1.6          |
| Input circuit                              |         |                                                                                                                  |              |              |              |              |              |
|                                            | V AC    | —                                                                                                                |              |              | 230...240    |              |              |
| Nominal voltage (U <sub>N</sub> )          | V DC    | 6 - 24 - 60                                                                                                      |              |              | —            |              |              |
|                                            | V AC/DC | (110...125) - (220...240)                                                                                        |              |              | 110...125    |              |              |
| Operating range                            | V DC    | See page 8                                                                                                       |              |              | See page 8   |              |              |
| Control current                            | mA      | See page 8                                                                                                       |              |              | See page 8   |              |              |
| Release voltage                            | V DC    | See page 8                                                                                                       |              |              | See page 8   |              |              |
| Technical data                             |         |                                                                                                                  |              |              |              |              |              |
| Operate/release time: ON/OFF (DC input)    | ms      | 0.1/0.4                                                                                                          | 0.02/0.11    | 12/12        | 0.1/0.4      | 0.02/0.11    | 12/12        |
| Dielectric strength between input/output   | V       | 2,500                                                                                                            |              |              | 2,500        |              |              |
| Ambient temperature range                  | °C      | -20...+55                                                                                                        |              |              | -20...+55    |              |              |
| Environmental protection                   |         | IP20                                                                                                             |              |              | IP20         |              |              |
| Approvals relay (according to type)        |         |  <sup>®</sup> <sub>US</sub> |              |              |              |              |              |

## Electromechanical Relay

### Ordering information

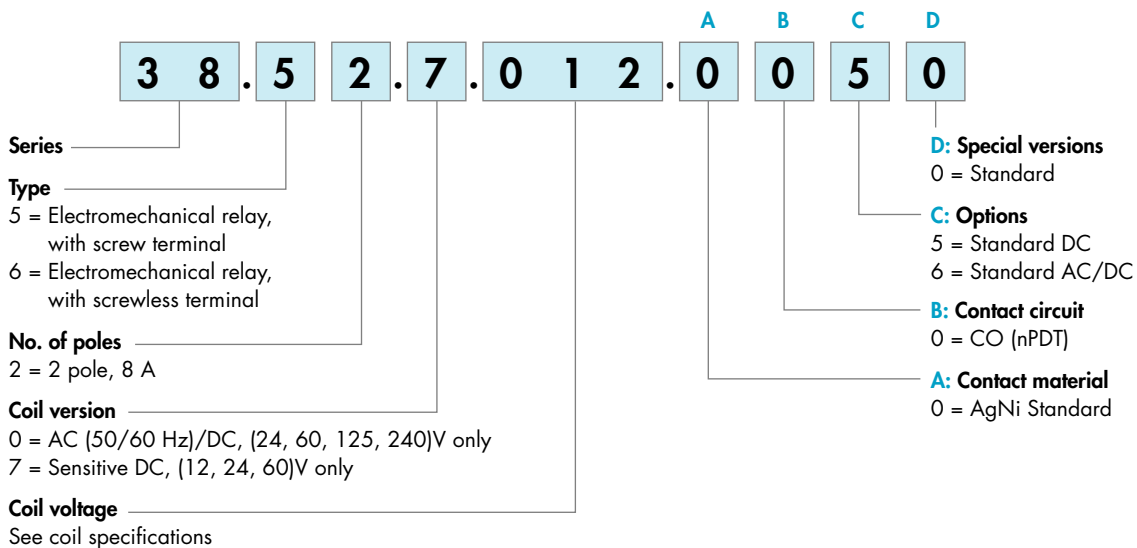
#### Electromechanical relay - 1 Pole

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



#### Electromechanical relay - 2 Pole

Example: 38 series screw terminal relay interface module, 2 CO (DPDT), sensitive 12 V DC coil.

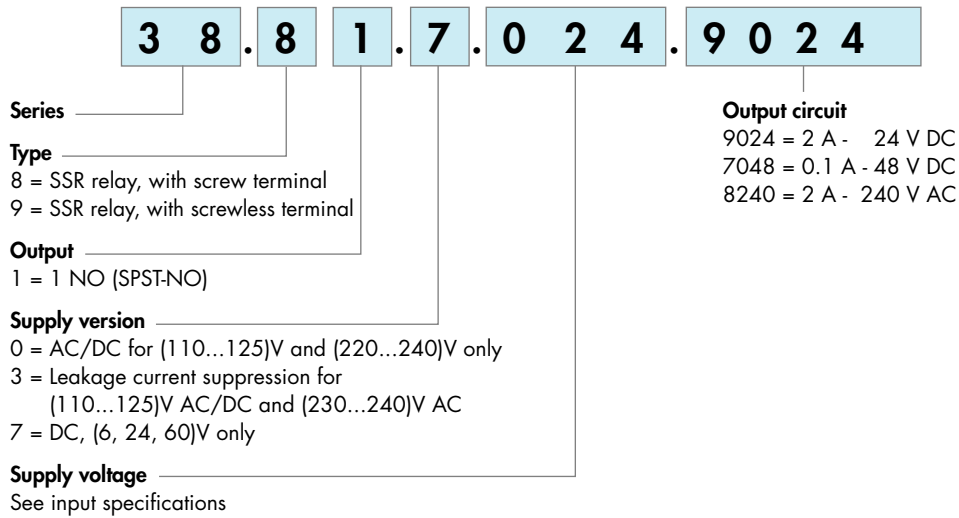


## Solid State Relay

### Ordering information

#### Solid state relay

Example: 38 series screw terminal SSR relay interface module, 2 A, 24 V DC supply.



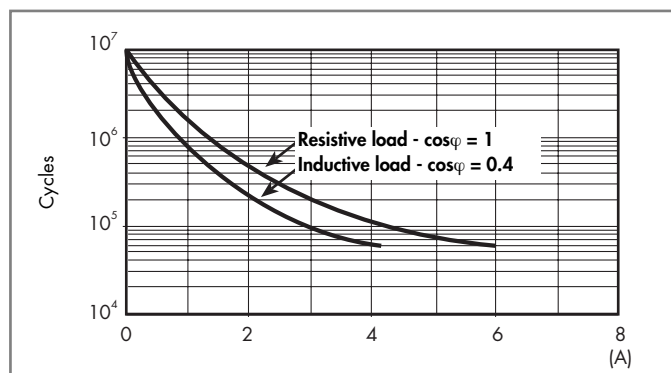
## Electromechanical Relay

### Technical data

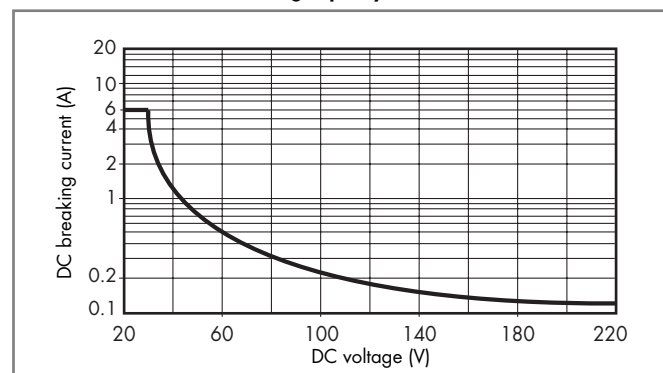
| Insulation                                       |                                 |      |                          |                |                          |                |
|--------------------------------------------------|---------------------------------|------|--------------------------|----------------|--------------------------|----------------|
| 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 μs) |                                 | kV   | 6 (8 mm)                 |                |                          |                |
| Dielectric strength between open contacts        |                                 | V AC | 1,000                    |                |                          |                |
| 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 3 (2 kV)           |                |
| Other data                                       |                                 |      | 1 Pole                   |                | 2 Pole                   |                |
| 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) |                | 0.5 (24 V) - 0.9 (240 V) |                |
|                                                  | with rated current              | W    | 0.5 (12 V) - 1.5 (240 V) |                | 1.3 (24 V) - 1.7 (240 V) |                |
|                                                  |                                 |      | 38.51/52                 |                | 38.61/62                 |                |
| Wire strip length                                |                                 | mm   | 10                       |                | 10                       |                |
| ⊖ Screw torque                                   |                                 | Nm   | 0.5                      |                | —                        |                |
| Max. wire size                                   |                                 |      | solid cable              | stranded cable | solid cable              | stranded cable |
|                                                  |                                 | mm²  | 1x2.5/2x1.5              | 1x2.5/2x1.5    | 1x2.5                    | 1x2.5          |
|                                                  |                                 | AWG  | 1x14/2x16                | 1x14/2x16      | 1x14                     | 1x14           |

### Contact specification

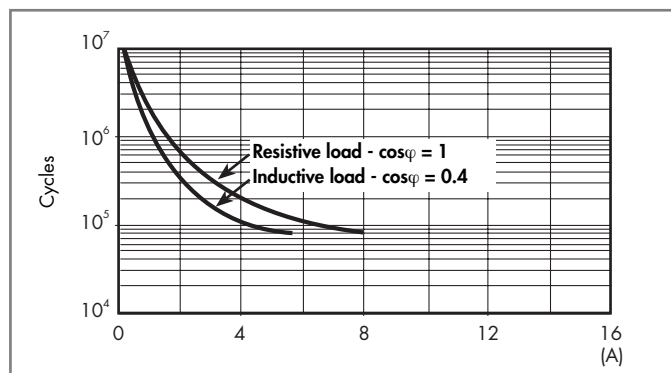
F 38 - Electrical life (AC) v contact current, 1 Pole



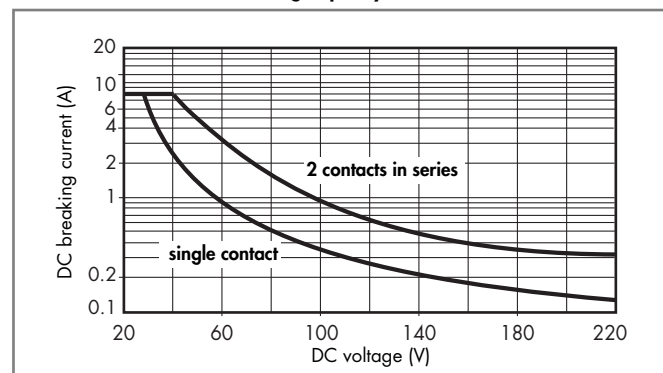
H 38 - Maximum DC1 breaking capacity, 1 Pole



F 38 - Electrical life (AC) v contact current, 2 Pole



H 38 - Maximum DC1 breaking capacity, 2 Pole



- 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.

## Electromechanical Relay 1 Pole

### Coil specifications

#### Coil data sensitive DC, 1 Pole

| Nominal voltage<br>$U_N$ | Coil code | Operating range |           | Rated coil consumption<br>I at $U_N$ | Power consumption<br>P at $U_N$ |
|--------------------------|-----------|-----------------|-----------|--------------------------------------|---------------------------------|
| V                        |           | $U_{min}$       | $U_{max}$ | 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<br>$U_N$ | Coil code | Operating range |           | Rated coil consumption<br>I at $U_N$ | Power consumption<br>P at $U_N$ |
|--------------------------|-----------|-----------------|-----------|--------------------------------------|---------------------------------|
| V                        |           | $U_{min}$       | $U_{max}$ | 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              | 137.5     | 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, indicated for max ambient temperature +70°C

| Nominal voltage<br>$U_N$ | Coil code | Operating range |           | Rated coil consumption<br>I at $U_N$ | Power consumption<br>P at $U_N$ |
|--------------------------|-----------|-----------------|-----------|--------------------------------------|---------------------------------|
| V                        |           | $U_{min}$       | $U_{max}$ | 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<br>$U_N$ | Coil code | Operating range |           | Rated coil consumption<br>I at $U_N$ | Power consumption<br>P at $U_N$ |
|--------------------------|-----------|-----------------|-----------|--------------------------------------|---------------------------------|
| V                        |           | $U_{min}$       | $U_{max}$ | 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 PLC,s with triac outputs or when connecting via relatively long cables.

## Electromechanical Relay 2 Pole

### Coil specifications

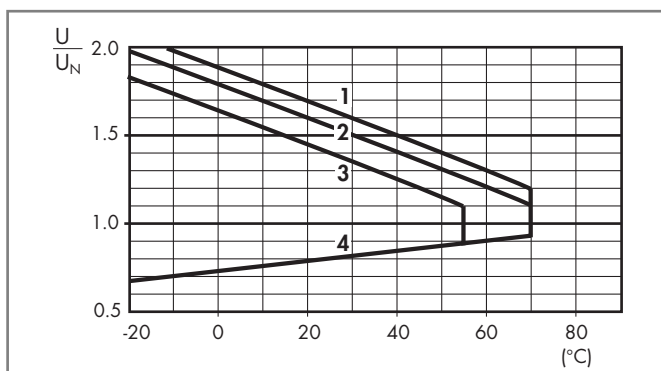
#### Coil data sensitive DC, 2 Pole

| Nominal voltage<br>$U_N$ | Coil code | Operating range |           | Rated coil consumption<br>I at $U_N$ | Power consumption<br>P at $U_N$ |
|--------------------------|-----------|-----------------|-----------|--------------------------------------|---------------------------------|
| V                        |           | $U_{min}$       | $U_{max}$ | 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

| Nominal voltage<br>$U_N$ | Coil code | Operating range |           | Rated coil consumption<br>I at $U_N$ | Power consumption<br>P at $U_N$ |
|--------------------------|-----------|-----------------|-----------|--------------------------------------|---------------------------------|
| V                        |           | $U_{min}$       | $U_{max}$ | mA                                   | VA/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                         |

#### 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.

## Solid State Relay

### Technical data

| Other data                    |                        |                |                |                |
|-------------------------------|------------------------|----------------|----------------|----------------|
| Power lost to the environment | without output current | W              | 0.25 (24 V DC) |                |
|                               | with rated current     | W              | 0.4            |                |
|                               |                        |                | <b>38.81</b>   | <b>38.91</b>   |
| Wire strip length             | mm                     | 10             | 10             |                |
| ⊖ Screw torque                | Nm                     | 0.5            | —              |                |
| Max. wire size                | solid cable            | stranded cable | solid cable    | stranded cable |
|                               | mm <sup>2</sup>        | 1x2.5 / 2x1.5  | 1x2.5          | 1x2.5          |
|                               | AWG                    | 1x14 / 2x16    | 1x14           | 1x14           |

### Input specification

#### Input data DC

| Nominal voltage<br>$U_N$ | Supply code | Operating range |                | Release voltage<br>$U$ | Rated coil consumption<br>$I$ at $U_N$ | Power consumption<br>$P$ |
|--------------------------|-------------|-----------------|----------------|------------------------|----------------------------------------|--------------------------|
| V                        |             | $U_{min}$<br>V  | $U_{max}$<br>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<br>$U_N$ | Supply code | Operating range |                | Release voltage<br>$U$ | Rated coil consumption<br>$I$ at $U_N$ | Power consumption<br>$P$ |
|--------------------------|-------------|-----------------|----------------|------------------------|----------------------------------------|--------------------------|
| V                        |             | $U_{min}$<br>V  | $U_{max}$<br>V | V                      | mA                                     | VA/W                     |
| 110...125                | 0.125       | 88              | 138            | 45                     | 5*                                     | 0.6/0.6                  |
| 220...240                | 0.240       | 184             | 264            | 90                     | 4.5*                                   | 1.1/0.9                  |

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

#### Input data - Leakage current suppression types

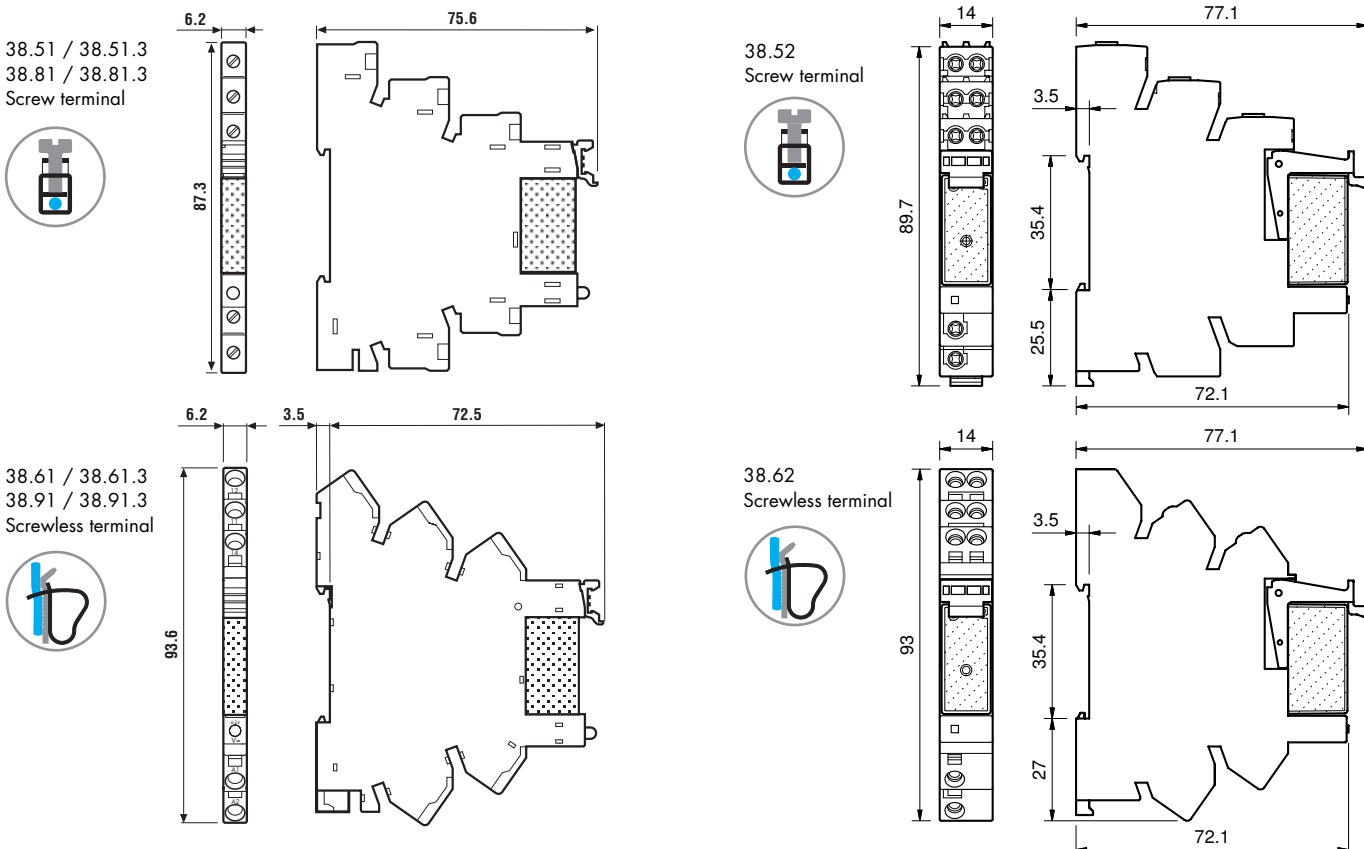
| Nominal voltage<br>$U_N$ | Supply code | Operating range |                | Release voltage<br>$U$ | Rated coil consumption<br>$I$ at $U_N$ | Power consumption<br>$P$ at $U_N$ |
|--------------------------|-------------|-----------------|----------------|------------------------|----------------------------------------|-----------------------------------|
| V                        |             | $U_{min}$<br>V  | $U_{max}$<br>V | V                      | mA                                     | W                                 |
| 110...125 AC/DC          | 3.125       | 94              | 138            | 44                     | 8(*)                                   | 1/1(*)                            |
| 230...240 AC             | 3.240       | 184             | 264            | 72                     | 5.6(*)                                 | 1.4/0.5(*)                        |

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

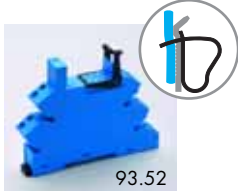
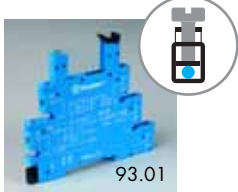
The 38 Series interface modules (supply version 3) have built-in leakage current suppression to address industry concerns of the contacts not dropping-out when there is residual current in the circuit; at (110...125)V AC and (230...240)V AC.

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

### Outline drawing



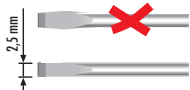
## Combination for Electromechanical Relay



Approvals  
(according to type):



UL US Certain relay/socket combinations



### Screw terminal - 1 Pole relay

| Code             | Supply voltage     | Type of relay    | Type of 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

| Code             | Supply voltage     | Type of relay    | Type of 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 - 2 Pole relay

| Code             | Supply voltage     | Type of relay    | Type of 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    |

### Screwless terminal - 2 Pole relay

| Code             | Supply voltage     | Type of relay    | Type of 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    |

## Combination for Solid State Relay

### Screw terminal

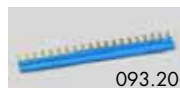
| Code             | Supply voltage     | Type of relay    | Type of socket |
|------------------|--------------------|------------------|----------------|
| 38.81.7.006.xxxx | 6 V DC             | 34.81.7.005.xxxx | 93.01.7.024    |
| 38.81.7.024.xxxx | 24 V DC            | 34.81.7.024.xxxx | 93.01.7.024    |
| 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

| Code             | Supply voltage     | Type of relay    | Type of 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

## Accessories



093.20

Approvals  
(according to type):

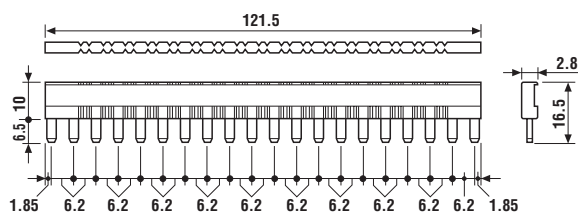


### 20-way jumper link for 38.x1

093.20 (blue)

Rated values

36 A - 250 V



093.08

Approvals  
(according to type):

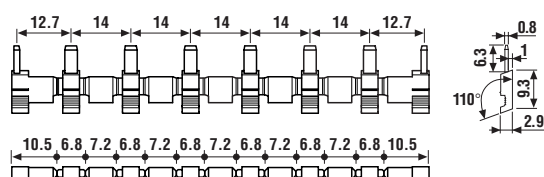


### 8-way jumper link for 38.x2

093.08 (blue)

Rated values

10 A - 250 V



093.01

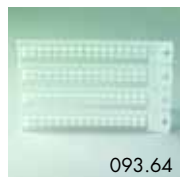
### Plastic separator

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



093.64

### Sheet of marker tags for 38.x1, plastic, 64 tags, 6x10 mm

093.64



060.72

### Sheet of marker tags for 38.x2, plastic, 72 tags, 6x12 mm

060.72