

### 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

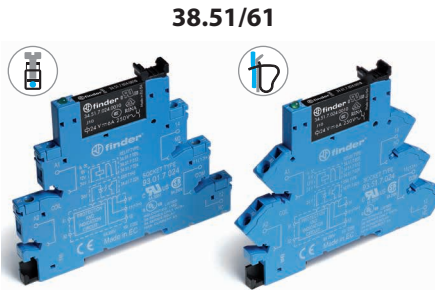
38.61/38.61.3  
Screwless terminal



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

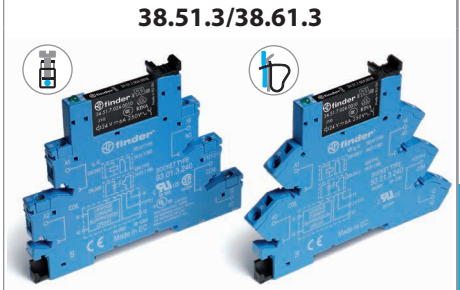
\*\* Maximum ambient temperature limitations apply in the case of adjacent mounting of modules, where the coil is energised with a duty cycle of  $\geq 50\%$  or where the ON time exceeds 1 hour:  
 +55 °C: applies to groups limited to 2 adjacent modules and where each group is separated by an air gap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

For outline drawing see page 13



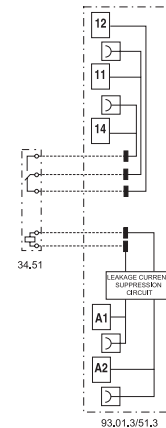
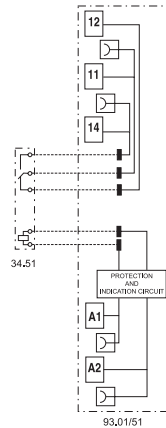
38.51/61

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



38.51.3/38.61.3

- 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 <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 9	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	72 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	1000	1000
Ambient temperature range (U <sub>N</sub> ≤ 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**

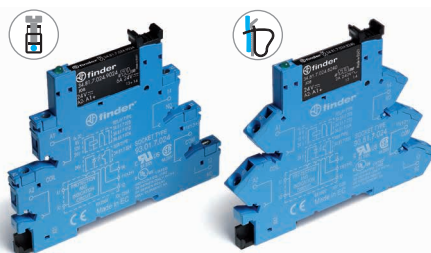
- DC, AC or AC/DC input versions
- Supplied with integral coil indication and protection circuit
- Silent, high switching speed and long electrical life
- Instant ejection of relay using plastic retaining clip
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

38.81/38.81.3  
Screw terminal

38.91/38.91.3  
Screwless terminal

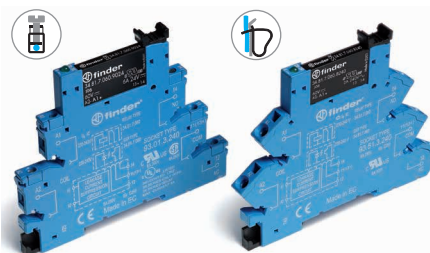


**38.81/38.91**

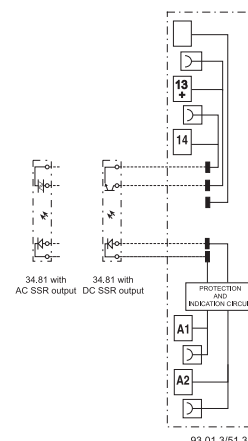
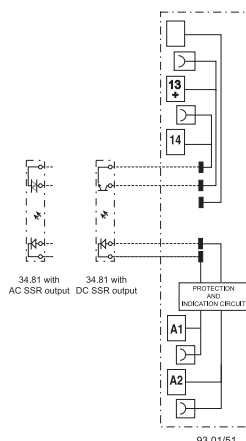


- AC or DC output switching
- SSR relay - DC input voltage
- Screw terminal and screwless terminal
- 35 mm rail (EN 60715) mounting

**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 <sub>pk</sub>	—	—	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 <sub>N</sub> )	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)

