

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

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 · 10⁶

 10 · 10⁶

Electrical life at rated load AC1

cycles

 60 · 10³

 60 · 10³

Operate/release time

ms

5/6

5/6

 Insulation between coil
and contacts (1.2/50 μ s)

kV

6 (8 mm)

6 (8 mm)

 Dielectric strength
between open contacts

V AC

1000

1000

 Ambient temperature range ($U_N \leq 60$ V / > 60 V)

°C

-40...+70/-40...+55

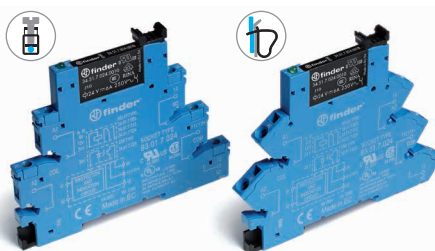
-/-40...+55

Protection category

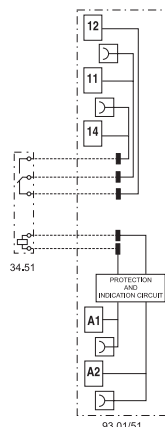
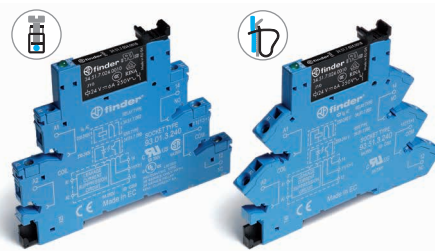
IP 20

IP 20

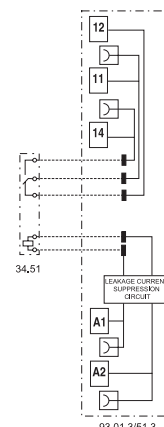
Approvals relay (according to type)

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

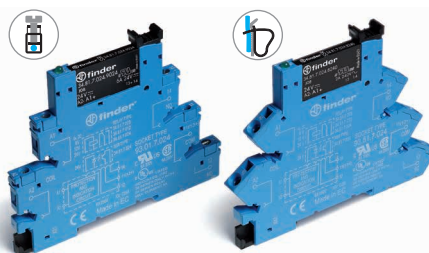


Single output - solid state relay interface modules, 6.2 mm wide.
Ideal interface for PLC and electronic systems

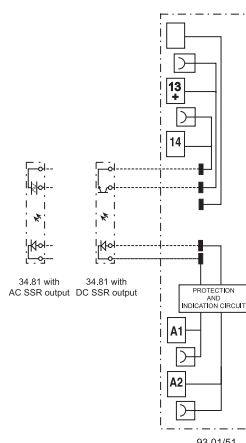
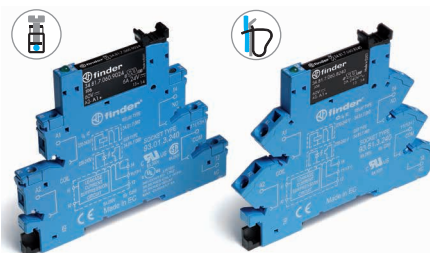
- DC, AC or AC/DC input versions
- Supplied with integral coil indication and protection circuit
- Silent, high switching speed and long electrical life
- Instant ejection of relay using plastic retaining clip
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

38.81/38.81.3
Screw terminal

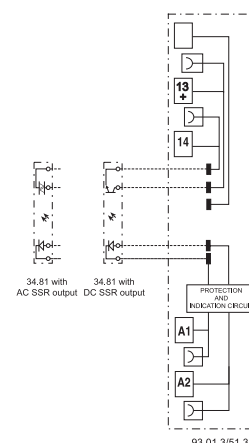
38.91/38.91.3
Screwless terminal

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

Contact configuration		1 NO (SPST-NO)			1 NO (SPST-NO)		
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)
