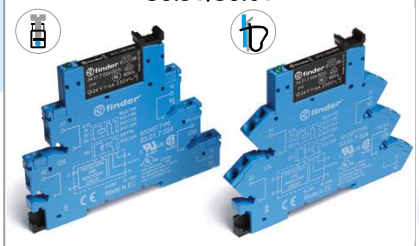
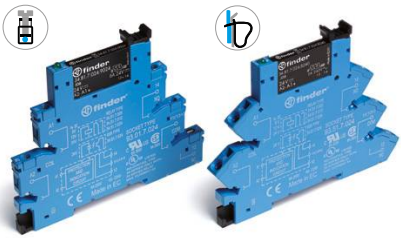
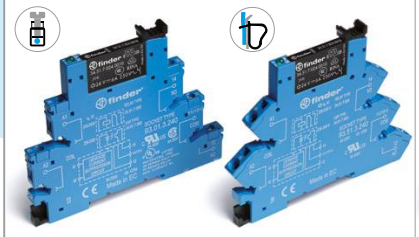
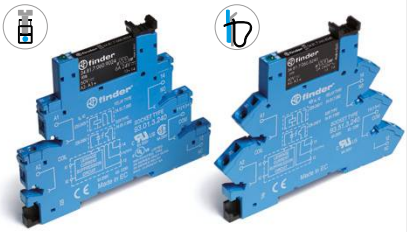
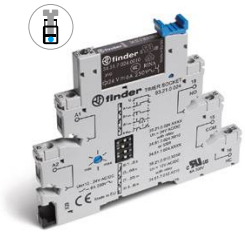
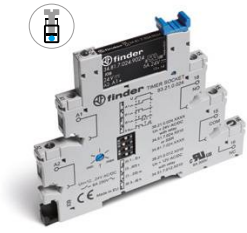
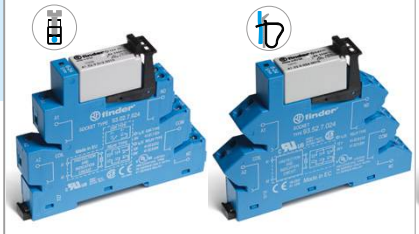
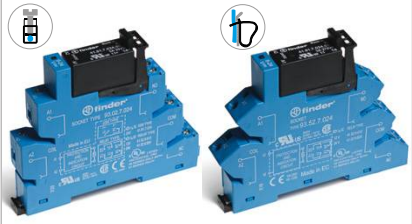
Common features	EMR Electromechanical Relays	SSR Solid State Relays
• Instant ejection of relay by plastic retaining clip • Integral coil indication and protection circuit • 35 mm rail (EN 60715) mounting		
6.2 mm wide • **EMR - DC, AC or AC/DC coil versions** • **SSR - DC or AC/DC input versions** • Box clamp and Screwless terminal options	**38.51/38.61**  • **1 CO - 6 A/250 V AC** **Page 1**	**38.81/38.91**  • 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 **Page 2**
6.2 mm wide • **Special coil/input leakage current suppression types** • **EMR - AC or AC/DC coil versions** • **SSR - AC or AC/DC input versions** • Box clamp and Screwless terminal options	**38.51.3... - 38.61.3...**  • **1 CO - 6 A/250 V AC** **Page 1**	**38.81.3... - 38.91.3...**  • 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 **Page 2**
6.2 mm wide • **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** • Box clamp	**38.21**  • **1 CO - 6 A/250 V AC** **Page 3**	**38.21...9024-8240**  • Single solid state output: Options **6 A/24 V DC, 2 A/240 V AC** • Silent, high speed switching • Long electrical life **Page 3**
14 mm wide • **2 pole 8 A or 1 pole 16 A** • **EMR - DC or AC/DC coil versions** • **SSR - DC input versions** • Box clamp and Screwless terminal options	**38.01/38.52/38.11/38.62**  • **1 CO - 16 A/250 V AC** • **2 CO - 8 A/250 V AC** **Page 4**	**38.31/38.41**  • Single solid state output: Options **5 A/24 V DC, 3 A/240 V AC** • Silent, high speed switching • Long electrical life **Page 5**

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

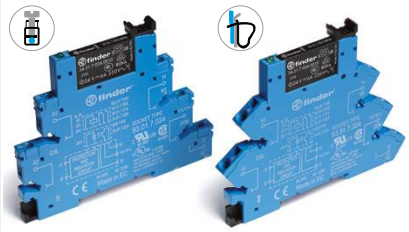
38.51/38.51.3
Box clamp

38.61/38.61.3
Screwless terminal

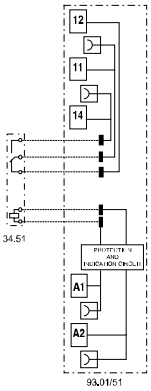
* Special version for max ambient temperature +70 °C.

For outline drawing see page 13

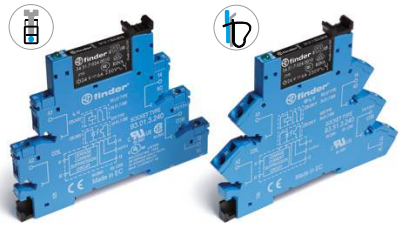
38.51/61



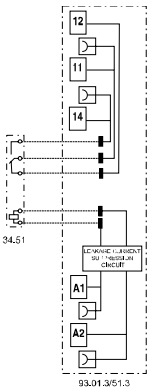
- 1 pole electromechanical relay
- Box clamp and screwless terminal
- 35 mm rail (EN 60715) mounting



38.51.3/38.61.3



- Leakage current suppression
- 1 pole electromechanical relay
- Box clamp 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: 24/110/220 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)	(110…125)	—
	V AC	(230…240)*	—	(230…240)
	V DC	6 - 12 - 24 - 48 - 60 - 220 (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	$10 \cdot 10^6$	$10 \cdot 10^6$	
Electrical life at rated load AC1	cycles	$60 \cdot 10^3$	$60 \cdot 10^3$	
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 ($U_N \leq 60$ V/> 60 V)	°C	–40…+70/–40…+55	—/–40…+55	
Protection category		IP 20	IP 20	
Approvals relay (according to type)				

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38 SERIES
Relay interface modules - Single output SSR

B

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

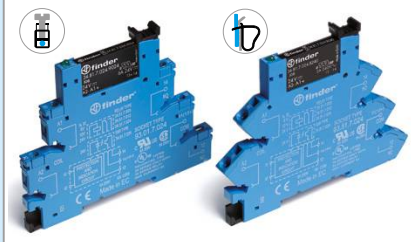
38.81/38.81.3
Box clamp



38.91/38.91.3
Screwless terminal

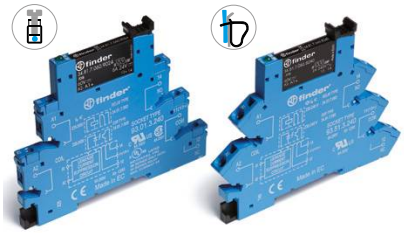


38.81/38.91

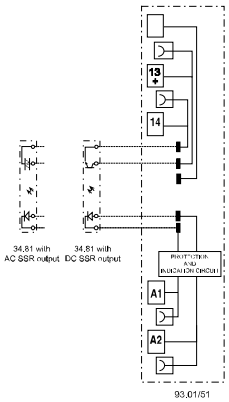


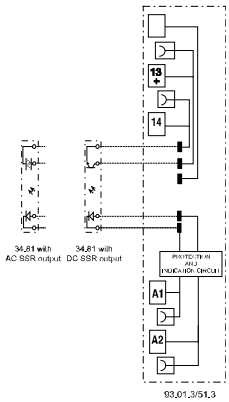
- AC or DC output switching
- SSR relay - DC input voltage
- Box clamp and screwless terminal
- 35 mm rail (EN 60715) mounting

38.81.3/38.91.3



- Leakage current suppression
- AC or DC output
- SSR relay - AC or AC/DC input voltage
- Box clamp 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			230…240		
	V DC	6 - 24 - 60 - 220 (non polarized)			—		
	V AC/DC	110…125			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)							

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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
Box clamp



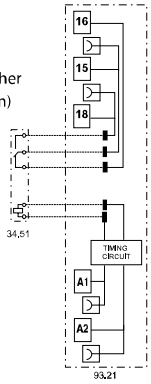
For outline drawing see page 13

38.21



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

AI: On-delay
DI: Interval
GI: Pulse delayed
SW: Symmetrical flasher (starting pulse on)

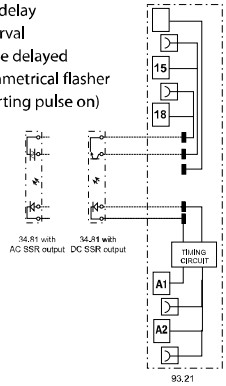


38.21...9024-8240



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

AI: On-delay
DI: Interval
GI: Pulse delayed
SW: Symmetrical flasher (starting pulse on)



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: 24/110/220 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	24
Rated power		VA/W	0.5	0.5
Operating range		AC	(0.8…1.1)U_N	(0.8…1.1)U_N
		DC	(0.8…1.1)U_N	(0.8…1.1)U_N
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)			CE UKCA EAC cULus	

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38 SERIES
Relay interface modules - 1 Pole 16 A and 2 Pole 8 A EMR

B

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

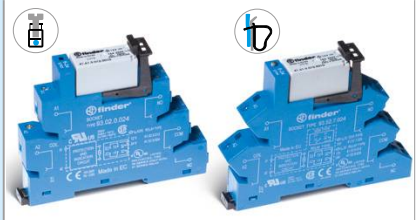
38.01/38.52
Box clamp



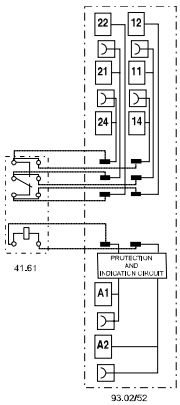
38.11/38.62
Screwless terminal



38.01/38.11

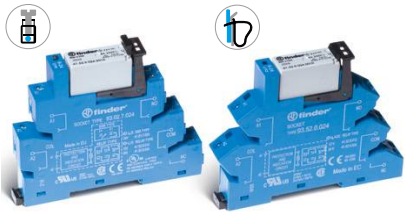


- Box clamp and screwless terminal
- 1 pole electromechanical relay
- 35 mm rail (EN 60715) mounting

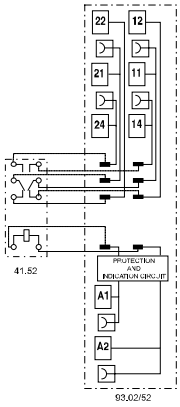


* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).

38.52/38.62



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



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: 24/110/220 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)	24 - 60 - (110…125)
	V AC	230…240	230…240
	V DC	12 - 24 - 60 - 220	12 - 24 - 60 - 220
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	$10 \cdot 10^6$	$10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$50 \cdot 10^3$	$60 \cdot 10^3$
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 ($U_N \leq 60$ V/> 60 V)	°C	–40…+70/–40…+55	–40…+70/–40…+55
Protection category		IP 20	IP 20
Approvals relay (according to type)			

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