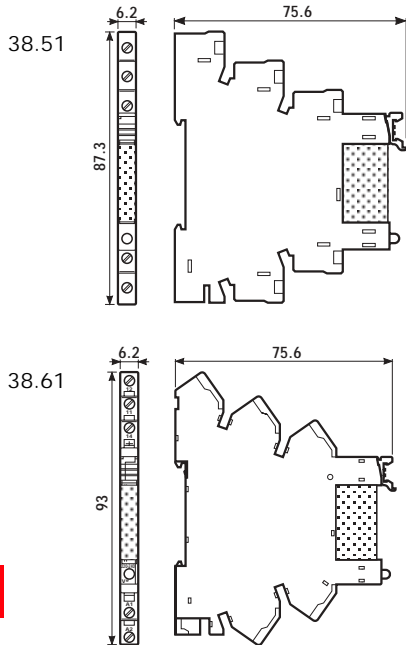
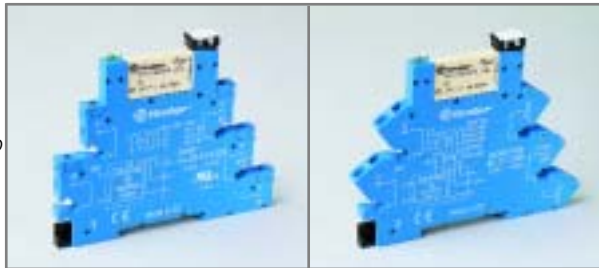
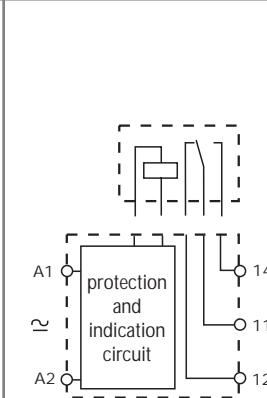
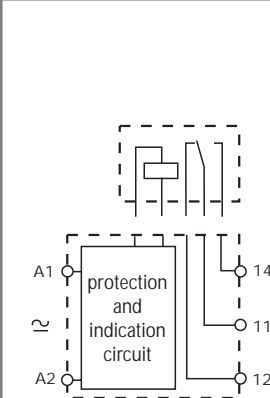


- Relay interface modules for use with PLC systems, 6.2 mm wide
- Sensitive DC coil or AC/DC coil version
- Supplied with integral coil indication and protection circuit
- Instant removal of relay using plastic retaining clip
- 35 mm rail (EN 50022) mounting


38.51
38.61


- Screw terminal
- Electromechanical relay
- 35 mm rail mounting

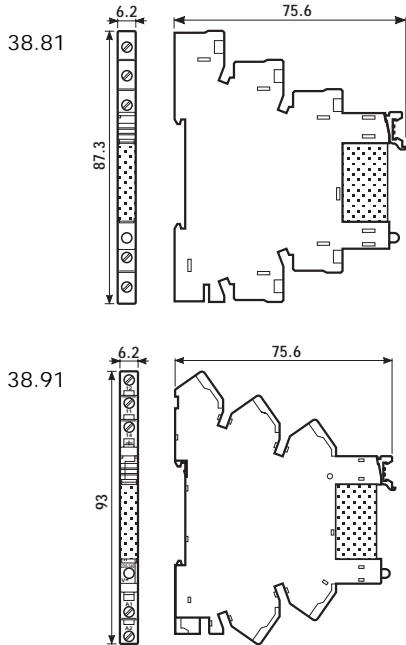
- Screw less terminal
- Electromechanical relay
- 35 mm rail mounting



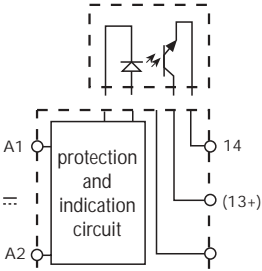
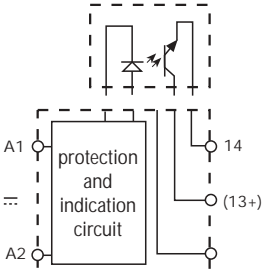

38

Contact specifications			
Contact configuration		1 CO	1 CO
Rated current/Maximum peak current	A	6/10	6/10
Rated voltage/Maximum switching voltage	V AC	250/400*	250/400*
Rated load in AC1	VA	1,500	1,500
Rated load in AC15 (230 VAC)	VA	300	300
Single phase motor rating (230 VAC)	kW	—	—
Breaking capacity in DC1: 30/110/220V	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 specifications			
Nominal voltage (U _N)	V DC/AC (50/60 Hz)	12 · 24 · 48 · 60 · 110...125 · 230...240	
	V DC	6 · 12 · 24 · 48 · 60	
Rated power AC/DC	VA (50 Hz)/W	see table page 81	see table page 81
Operating range	AC/DC (50 Hz)	see table page 81	see table page 81
	DC	see table page 81	see table page 81
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	60 · 10 ³	60 · 10 ³
Operate/release time (bounce included)	ms	7/11	7/11
Insulation according to EN 61810-5		3.6 kV/3	3.6 kV/3
Insulation between coil and contacts (1.2/50µs)	kV	6 (8mm)	6 (8mm)
Dielectric strength between open contacts	V AC	1,000	1,000
Ambient temperature range (AC/DC)/(DC)	°C	-40...+55/-40...+70	-40...+55/-40...+70
Protection category		IP20	IP20
Approvals (relay): (according to type)			

* for 400 V applications, requirements for pollution degree 2 are met.

- Relay interface modules for use with PLC systems, 6.2 mm wide
- Sensitive DC coil or AC/DC coil version
- Supplied with integral coil indication and protection circuit
- Instant removal of relay using plastic retaining clip
- 35 mm rail (EN 50022) mounting



	38.81		38.91	
				
	<ul style="list-style-type: none"> - Screw terminal - SSR relay - 35 mm rail mounting 		<ul style="list-style-type: none"> - Screwless terminal - SSR relay - 35 mm rail mounting 	
				
Output circuit				
Maximum switching current	A	2	0,1	
Rated voltage	V DC	24	48	
Switching voltage range	V DC	0...24	0...48	
Maximum blocking voltage	V DC	33	60	
Input circuit				
Nominal voltage	V DC	24 - 60		
Operating range	V DC	see table page 80		
Control current	mA	see table page 80		
Release voltage	V DC	see table page 80		
Technical data				
Dielectric strength between input/output	V	2500		
Ambient temperature range	°C	-20...+55		
Protection category		IP20		
Approvals: (according to type)		—		

ELECTROMECHANICAL RELAY

TECHNICAL DATA

INSULATION

INSULATION according to EN 61810-5	insulation rated voltage	V	250
	rated impulse withstand voltage	kV	3.6
	pollution degree		3
	overvoltage category		III

IMMUNITY

CONDUCTED DISTURBANCE IMMUNITY	BURST (according to EN 61000-4-4) level 4 (4kV)
	SURGE (according to EN 61000-4-5) level 3 (2kV)

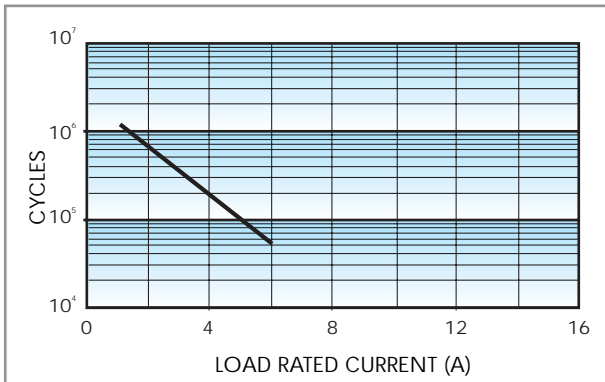
OTHER DATA

VIBRATION RESISTANCE (10...55Hz): NO/NC	g/g	10/5			
POWER LOST TO THE ENVIRONMENT	without contact current	W	0.2 (12V) - 0.9 (240V)		
	with rated current	W	0.5 (12V) - 1.5 (240V)		
WIRE STRIP LENGTH	mm	10			
			38.51		38.61
⊖ SCREW TORQUE	Nm	0.5		—	
MAX WIRE SIZE		solid cable	stranded cable	solid cable	stranded cable
		mm ²	1x2.5 / 2x1.5	1x2.5 / 2x1.5	1x2.5 / 1x2.5
		AWG	1x14 / 2x16	1x14 / 2x16	1x14 / 1x14

38

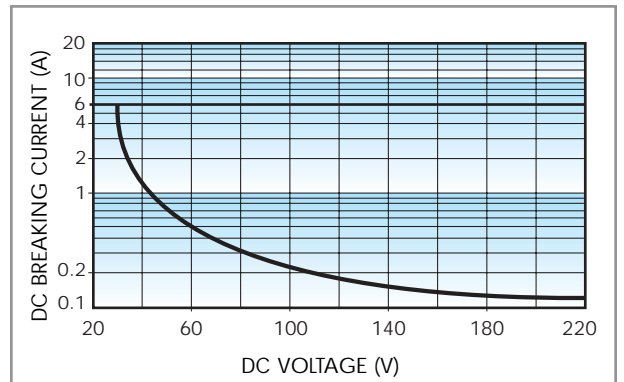
CONTACT SPECIFICATIONS

F 38



Electrical life vs AC1 load.

H 38



Breaking capacity in DC1 load.

- When switching a resistive load (DC1) having voltage and current values under the curve the expected electrical life is $\geq 100 \cdot 10^3$ cycles.
 - In case of DC13 loads the connection of a diode in parallel with the load will permit the same electrical life as for a DC1 load.
- Note:** the release time of load will be increase.

ELECTROMECHANICAL RELAY

COIL SPECIFICATIONS

AC/DC VERSION DATA

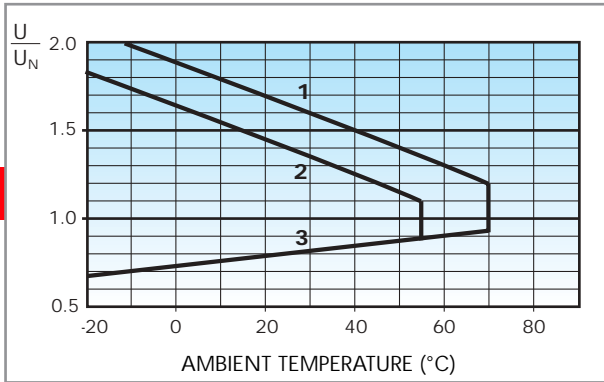
Nominal voltage U_N V	Coil code	Operating range		Rated coil consumption I at U_N mA	Power consumption P at U_N W
		U_{min} V	U_{max} V		
12	0.012	9.8	13.2	19	0.2
24	0.024	19.2	26.4	12	0.3
48	0.048	38.4	52.8	9	0.4
60	0.060	48	66	7	0.5
110...125	0.125	88	138	5(*)	0.6(*)
230...240	0.240	184	264	4(*)	0.9(*)

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

DC VERSION DATA (sensitive)

Nominal voltage U_N V	Coil code	Operating range		Rated coil consumption I at U_N mA
		U_{min} V	U_{max} V	
6	7.006	5	7.2	48.1
12	7.012	9.8	14.4	15.2
24	7.024	18.2	28.8	9.4
48	7.048	35	57.6	6.3
60	7.060	43.5	72	5.2

R 38



Operating range Vs ambient temperature.

- 1** - Max coil voltage permitted at nominal load (DC version).
- 2** - Max coil voltage permitted at nominal load (AC/DC version).
- 3** - Min pick-up voltage with coil at ambient temperature.



93.01



93.11



COMBINATION FOR ELECTROMECHANICAL 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
38.51.7.006.0050	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
38.61.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.11.0.024
38.61.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.11.0.024
38.61.0.125.0060	110...125 V AC/DC	34.51.7.060.0010	93.11.0.125
38.61.0.240.0060	220...240 V AC/DC	34.51.7.060.0010	93.11.0.240
38.61.7.012.0050	12 V DC	34.51.7.012.0010	93.11.7.024
38.61.7.024.0050	24 V DC	34.51.7.024.0010	93.11.7.024
COMBINATION FOR SSR RELAY			
Code	Supply voltage	Type of relay	Type of socket
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
38.91.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.11.7.024
38.91.7.060.xxxx	60 V DC	34.81.7.060.xxxx	93.11.7.060

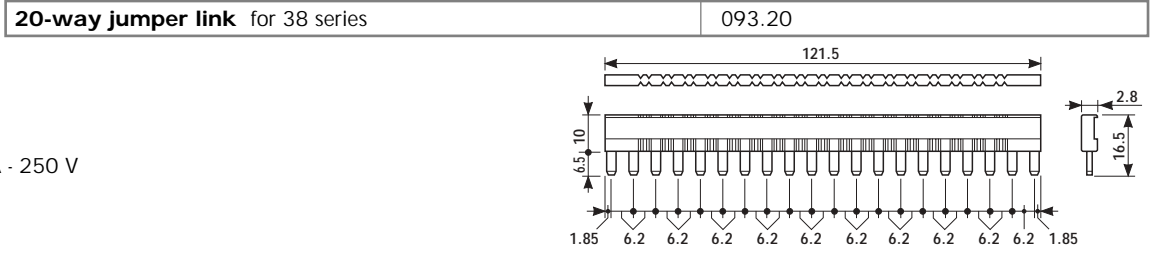
In **bold** the preferred versions.

ACCESSORIES



093.20

- RATED VALUES: 36 A - 250 V

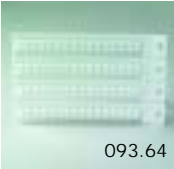


093.01

Plastic separator	093.01
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Thickness 2mm, 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 (64 tags)	093.64
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