

Features

1 & 2 pole relay interface modules, screw terminal socket, 15.8 mm wide.

Ideal interface for PLC and electronic systems

4C.01 - 1 Pole 16 A
4C.02 - 2 Pole 8 A

- AC coils or DC coils
- Instant ejection of relay using plastic retaining clip
- Supply status indication and coil suppression module as standard
- Identification label
- UL Listing Mark
- 35 mm rail (EN 50022) mounting

4C.01 / 4C.02
Screw terminal



For outline drawing of 4C.01/02 see page 6.

Contact specification

	4C.01	4C.02
Contact configuration	1 CO (SPDT)	2 CO (DPDT)
Rated current/Maximum peak current A	16/25	8/15
Rated voltage/Maximum switching voltage V AC	250/440	250/440
Rated load AC1 VA	4000	2000
Rated load AC15 (230 V AC) VA	750	350
Single phase motor rating (230 V AC) kW	0.55	0.37
Breaking capacity DC1: 30/110/220V A	16/0.5/0.15	6/0.5/0.15
Minimum switching load mW (V/mA)	300 (5/5)	300 (5/5)
Standard contact material	AgNi	AgNi

Coil specification

	4C.01	4C.02
Nominal voltage (U_N)	V AC (50/60 Hz)	12 - 24 - 110 - 230
	V DC	12 - 24 - 125
Rated power AC/DC VA (50 Hz)/W	1.2/0.5	1.2/0.5
Operating range	AC	$(0.8 \dots 1.1)U_N$
	DC	$(0.73 \dots 1.1)U_N$
Holding voltage AC/DC	$0.8 U_N / 0.4 U_N$	$0.8 U_N / 0.4 U_N$
Must drop-out voltage AC/DC	$0.2 U_N / 0.1 U_N$	$0.2 U_N / 0.1 U_N$

Technical data

Mechanical life AC/DC	cycles	$10 \cdot 10^6$	$10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$
Operate/release time	ms	15/5 (AC) - 15/12 (DC)	10/3 (AC) - 10/10 (DC)
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	$^{\circ}$ C	$\leq 12A: -40 \dots +70 / > 12A: -40 \dots +50$	$-40 \dots +70$
Protection category		IP 20	IP 20

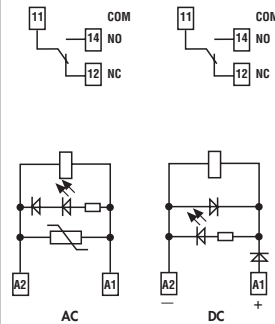
Approvals (according to type)



4C.01



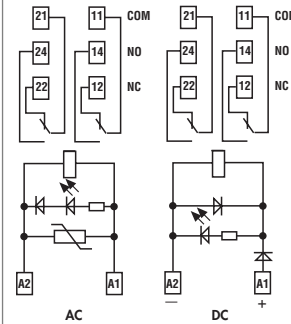
- 1 pole 16 A
- Screw terminal connection
- 35 mm rail mounting



4C.02



- 2 pole 8 A
- Screw terminal connection
- 35 mm rail mounting



Features

1 & 2 pole relay interface modules, screwless terminal socket, 15.8 mm wide.

Ideal interface for PLC and electronic systems

4C.51 - 1 Pole 10 A

4C.52 - 2 Pole 8 A

- AC coils or DC coils
- Instant ejection of relay using plastic retaining clip
- Supply status indication and coil suppression module as standard
- Identification label
- UL Listing Mark
- 35 mm rail (EN 50022) mounting

4C.51 / 4C.52
Screwless terminal

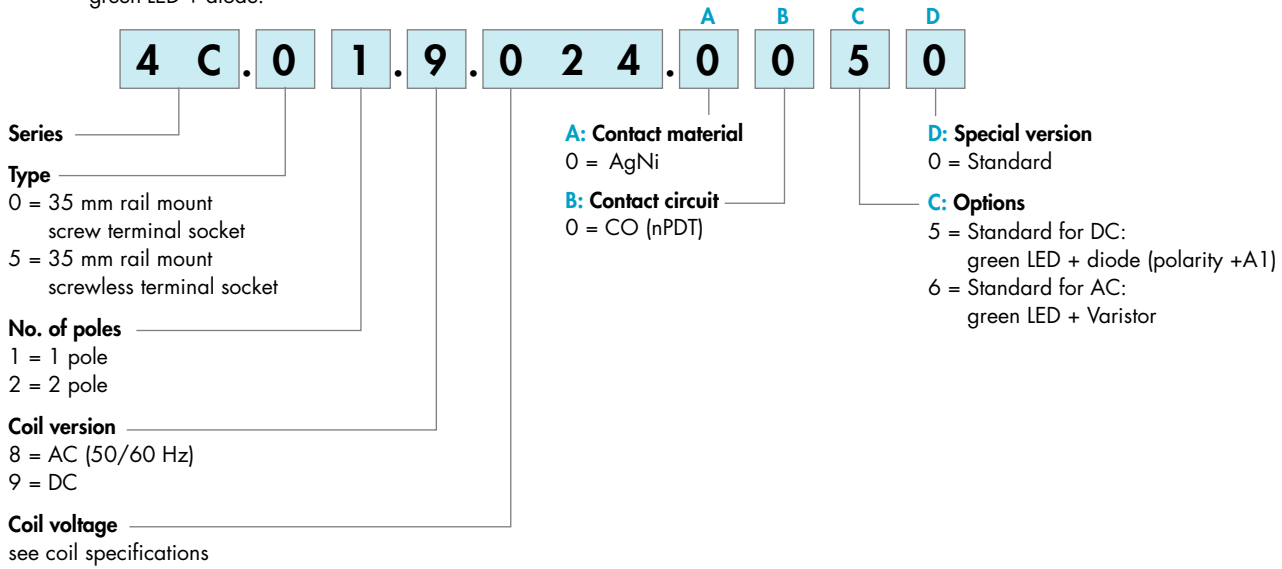


	4C.51	4C.52
	<p>NEW</p> <ul style="list-style-type: none"> • 1 pole 10 A • Screwless terminal connections • 35 mm rail mounting 	<p>NEW</p> <ul style="list-style-type: none"> • 2 pole 8 A • Screwless terminal connections • 35 mm rail mounting
Contact specification		
Contact configuration	1 CO (SPDT)	2 CO (DPDT)
Rated current/Maximum peak current A	10/20	8/15
Rated voltage/Maximum switching voltage V AC	250/440	250/440
Rated load AC1 VA	2500	2000
Rated load AC15 (230 V AC) VA	750	350
Single phase motor rating (230 V AC) kW	0.55	0.37
Breaking capacity DC1: 30/110/220V A	10/0.5/0.15	6/0.5/0.15
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 (50/60 Hz)	12 - 24 - 110 - 230	12 - 24 - 110 - 230
	12 - 24 - 125	12 - 24 - 125
Rated power AC/DC VA (50 Hz)/W	1.2/0.5	1.2/0.5
	(0.8...1.1)U _N	(0.8...1.1)U _N
Operating range AC	(0.73...1.1)U _N	(0.73...1.1)U _N
	(0.73...1.1)U _N	(0.73...1.1)U _N
Holding voltage AC/DC	0.8 U _N /0.4 U _N	0.8 U _N /0.4 U _N
Must drop-out voltage AC/DC	0.2 U _N /0.1 U _N	0.2 U _N /0.1 U _N
Technical data		
Mechanical life AC/DC cycles	10 · 10 ⁶	10 · 10 ⁶
Electrical life at rated load AC1 cycles	100 · 10 ³	100 · 10 ³
Operate/release time ms	15/5 (AC) - 15/12 (DC)	10/3 (AC) - 10/10 (DC)
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 °C	-40...+70	-40...+70
Protection category	IP 20	IP 20
Approvals relay (according to type)		

For outline drawing of 4C.51/52 see page 6.

Ordering information

Example: 4C series, 35 mm rail (EN 50022) mount screw terminal relay interface module, 1 CO (SPST) 16 A contacts, 24 V DC coil, green LED + diode.

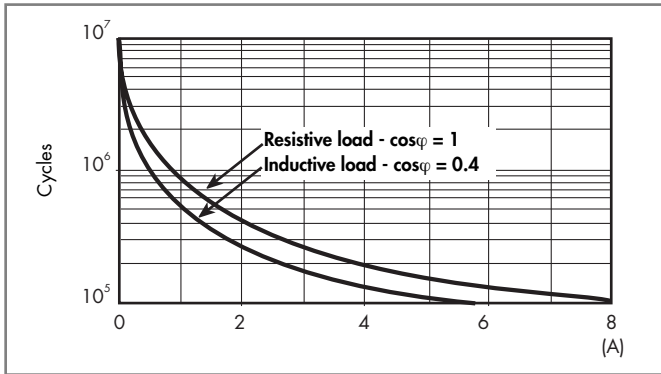


Technical data

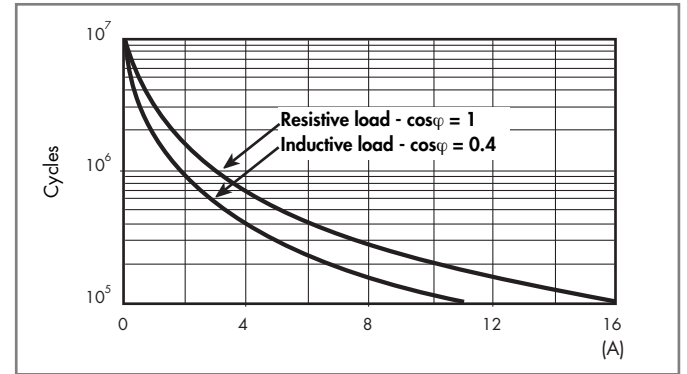
Insulation						
Insulation according to EN 61810-1 ed. 2	insulation rated voltage	V	250	440		
	rated impulse withstand voltage	kV	4	4		
	pollution degree		3	2		
	overvoltage category		III	III		
Insulation between coil and contacts (1.2/50 μs)		kV	6 (8 mm)			
Dielectric strength between open contacts		V AC	1000			
Dielectric strength between adjacent contacts		V AC	2000			
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						
Bounce time: NO/NC		ms	2/6 (4C.01/51)	1/4 (4C.02/52)		
Power lost to the environment	without contact current	W	0.6			
	with rated current	W	1.6 (4C.01/51)	2 (4C.02/52)		
			4C.01/4C.02	4C.51/4C.52		
Wire strip length		mm	8			
Screw torque		Nm	0.5			
Max. wire size			solid cable	stranded cable	solid cable	stranded cable
		mm ²	1x6/2x2.5	1x4/2x2.5	2x(0.2...1.5)	2x(0.2...1.5)
		AWG	1x10/2x14	1x12/2x14	2x(24...18)	2x(24...18)

Contact specification

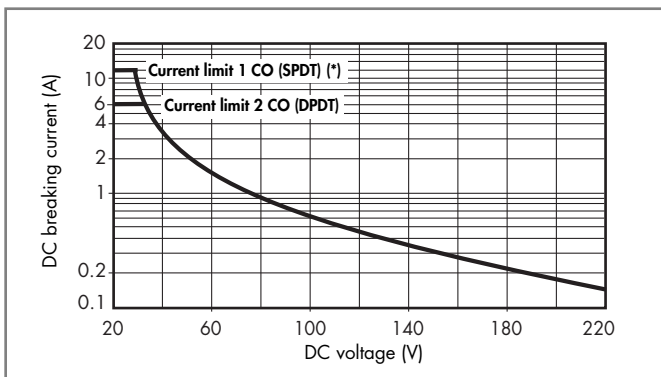
F 4C - Electrical life (AC) v contact current
Types 4C.02/52



F 46 - Electrical life (AC) v contact current
Types 4C.01/51



H 4C - Maximum DC1 breaking capacity



(*) Type 4C.01 = 12 A, Type 4C.51 = 10 A

- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ 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.

Coil specifications

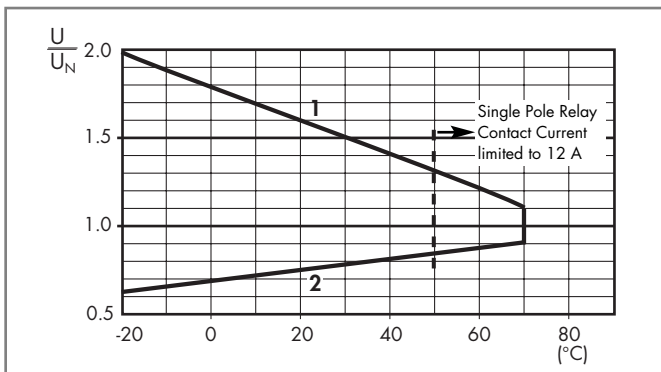
DC coil data

Nominal voltage U_N V	Coil code	Operating range		Resistance R Ω	Rated coil consumption I at U_N mA
		U_{min} V	U_{max} V		
12	9.012	8.8	13.2	300	40
24	9.024	17.5	26.4	1200	20
125	9.125	91.2	137.5	32000	3.9

AC coil data

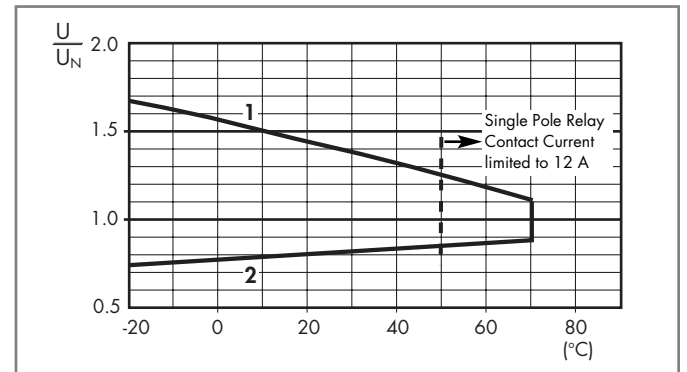
Nominal voltage U_N V	Coil code	Operating range		Resistance R Ω	Rated coil consumption I at U_N mA
		U_{min} V	U_{max} V		
12	8.012	9.6	13.2	80	90
24	8.024	19.2	26.4	320	45
120	8.120	96	132	9000	8.4
230	8.230	184	253	28000	5

R 4C - DC coil operating range v ambient temperature



- 1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

R 4C - AC coil operating range v ambient temperature



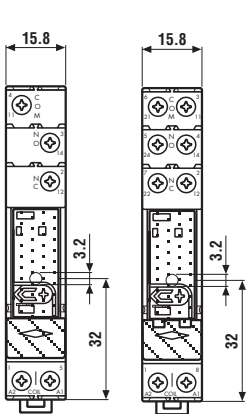
- 1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

----- Temperature limit for the single pole version under full 16 A contact current.

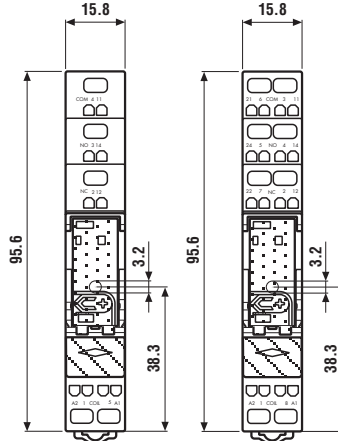
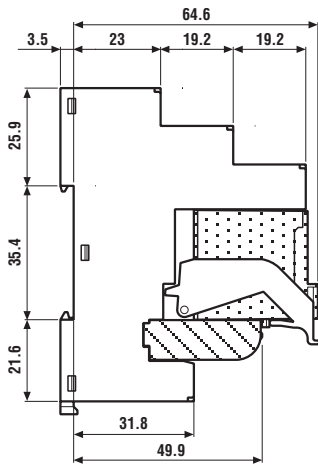
Combinations

certain relay/
socket combinations

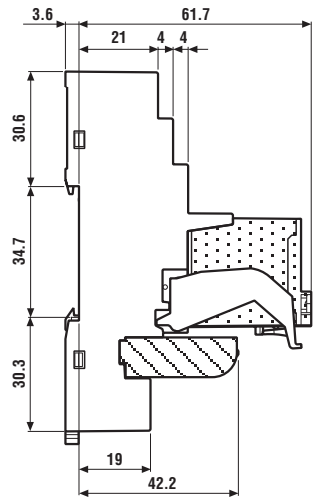
Code	Type of socket	Type of relay	Module	Retaining clip
4C.01	97.01	46.61	99.02	097.01
4C.02	97.02	46.52	99.02	097.01
4C.51	97.51	46.61	99.02	097.01
4C.52	97.52	46.52	99.02	097.01



4C.01 / 4C.02
Screw terminal



4C.51 / 4C.52
Screwless terminal

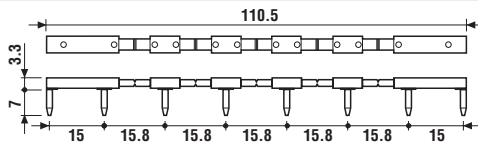


Accessories



095.18

8-way jumper link for 4C.01 and 4C.02	095.18
Rated values	10 A - 250 V



060.72

Sheet of marker tags , plastic, 72 tags, 6x12 mm	060.72
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Packaging code

How to code and identify retaining clip and packaging options for relay interface module.

Example:

4 C . 0 1 . 9 . 0 2 4 . 0 0 5 0 S P A

A Standard packaging
B Blister packaging

SP Plastic retaining clip