

**Power relays 1 and 2 pole for direct PCB or socket mount**

**Type 40.31**

- 1 CO 10 A (3.5 mm pin pitch)

**Type 40.51**

- 1 CO 10 A (5 mm pin pitch)

**Type 40.52**

- 2 CO 8 A (5 mm pin pitch)

- DC coils (standard or sensitive) or AC coils
- Cadmium-free contact material
- 8 mm Creepage and Clearance, 6 kV (1.2/50µs) between coil and contact
- 95 series sockets for PCB or 35 mm rail mounting (EN 60715) with Screw, Screwless or Push-in terminals
- Coil Indication and EMC suppression modules 99 series and Timer module 86.30 options
- Environmental protection:  
RT II - flux proof (Standard)  
RT III - wash tight (Option)

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 10

**Contact specification**

Contact configuration		1 CO (SPDT)	1 CO (SPDT)	2 CO (DPDT)
Rated current/Maximum peak current	A	10/20	10/20	8/15
Rated voltage/Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	2500	2500	2000
Rated load AC15 (230 V AC)	VA	500	500	400
Single phase motor rating (230 V AC)	kW	0.37	0.37	0.3
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12	10/0.3/0.12	8/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi	AgNi

**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240		
	V DC	5 - 6 - 7 - 9 - 12 - 14 - 18 - 21 - 24 - 28 - 36 - 48 - 60 - 90 - 110 - 125		
Rated power AC/DC/sens. DC	VA (50 Hz)/W/W	1.2/0.65/0.5	1.2/0.65/0.5	1.2/0.65/0.5
Operating range	AC	(0.8...1.1)U <sub>N</sub>	(0.8...1.1)U <sub>N</sub>	(0.8...1.1)U <sub>N</sub>
	DC/sens. DC	(0.73...1.5)U <sub>N</sub> / (0.73...1.5)U <sub>N</sub>	(0.73...1.5)U <sub>N</sub> / (0.73...1.5)U <sub>N</sub>	(0.73...1.5)U <sub>N</sub> / (0.73...1.5)U <sub>N</sub>
Holding voltage	AC/DC	0.8 U <sub>N</sub> / 0.4 U <sub>N</sub>	0.8 U <sub>N</sub> / 0.4 U <sub>N</sub>	0.8 U <sub>N</sub> / 0.4 U <sub>N</sub>
Must drop-out voltage	AC/DC	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>

**Technical data**

Mechanical life	cycles	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	200 · 10 <sup>3</sup>	200 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time	ms	7/3 - (12/4 sensitive)	7/3 - (12/4 sensitive)	7/3 - (12/4 sensitive)
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	°C	-40...+85	-40...+85	-40...+85
Environmental protection		RT II**	RT II**	RT II**

**Approvals** (according to type)



\*\* See general technical information "Guidelines for automatic flow solder processes" page II.

	40.31	40.51	40.52
	<ul style="list-style-type: none"> <li>• 1 CO 10 A</li> <li>• 3.5 mm pin pitch</li> <li>• PCB or 95 Series socket mount</li> </ul>	<ul style="list-style-type: none"> <li>• 1 CO 10 A</li> <li>• 5.0 mm pin pitch</li> <li>• PCB or 95 Series socket mount</li> </ul>	<ul style="list-style-type: none"> <li>• 2 CO 8 A</li> <li>• 5.0 mm pin pitch</li> <li>• PCB or 95 Series socket mount</li> </ul>
	Copper side view	Copper side view	Copper side view
	Pin length 5.3 mm for PCB or sockets	Pin length 5.3 mm for PCB or sockets	Pin length 5.3 mm for PCB or sockets

**Power relays 1 and 2 pole for direct PCB or socket mount**

**Type 40.61**

- 1 CO 16 A (5.0 mm pin pitch)
- DC coils (standard or sensitive) or AC coils

**Type 40.xx.6**

- Bistable versions of the types 40.31, 40.51, 40.52 and 40.61
- Bistable (single coil) DC or AC coils

- Cadmium-free contact material available
- 8 mm Creepage and Clearance, 6 kV (1.2/50µs) between coil and contact
- 95 series sockets for PCB or 35 mm rail mounting (EN 60715) with Screw, Screwless or Push-in terminals
- Coil Indication and EMC suppression modules 99 series and Timer module 86.30 options
- Environmental protection:  
RT II - flux proof (Standard)  
RT III - wash tight (Option)

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 10

**Contact specification**

Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	16/30*
Rated voltage/ Maximum switching voltage	V AC	250/400
Rated load AC1	VA	4000
Rated load AC15 (230 V AC)	VA	750
Single phase motor rating (230 V AC)	kW	0.55
Breaking capacity DC1: 30/110/220 V	A	16/0.3/0.12
Minimum switching load	mW (V/mA)	500 (10/5)
Standard contact material		AgCdO

**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	6-12-24-48-60-110-120-230-240
	V DC	***See table
Rated power AC/DC/sens. DC	VA (50 Hz)/W/W	1.2/0.65/0.5
Operating range	AC	(0.8...1.1)U <sub>N</sub>
	DC/sens. DC	(0.73...1.5)U <sub>N</sub> / (0.8...1.5)U <sub>N</sub>
Holding voltage	AC/DC	0.8 U <sub>N</sub> / 0.4 U <sub>N</sub>
Must drop-out voltage	AC/DC	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>

**Technical data**

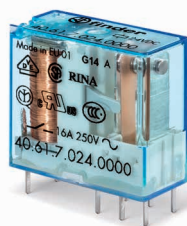
Mechanical life	cycles	10 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	100 · 10 <sup>3</sup>
Operate/release time	ms	7/3 - (12/4 sensitive)
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)
Dielectric strength between open contacts	V AC	1000
Ambient temperature range	°C	-40...+85
Environmental protection		RT II**

**Approvals** (according to type)

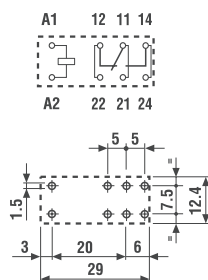


\*\* See general technical information "Guidelines for automatic flow solder processes" page II.

**40.61**



- 1 CO 16 A
- 5.0 mm pin pitch
- PCB or 95 Series socket mount



Copper side view

Pin length 5.3 mm for PCB or sockets

**40.xx.6**



- Bistable (single coil)
- 3.5 or 5.0 mm pin pitch
- PCB or 95 Series socket mount

Bistable version (1 coil) types:

- 40.31.6...
- 40.51.6...
- 40.52.6...
- 40.61.6...

For wiring diagrams see page 9

Pin length 5.3 mm for PCB or sockets

\* With the AgSnO<sub>2</sub> material the maximum peak current is 120 A - 5 ms on normally open contact.

\*\*\* Nominal voltage (U<sub>N</sub>):  
5 - 6 - 7 - 9 - 12 - 14 - 18 - 21 - 24 - 28 - 36 - 48 - 60 - 90 - 110 - 125 V DC

**Power relays 1 pole for direct PCB or socket mount**

**Type 40.31**  
- 1 CO 12 A (3.5 mm pin pitch)

**Type 40.61**  
- 1 CO 16 A (5.0 mm pin pitch)

- Pin length 3.5 mm for PCB mount
- Pin length 5.3 mm for Plug-in mount
- DC coils (650 mW or 500 mW)
- Cadmium-free contact material available
- 8 mm Creepage and Clearance, 6 kV (1.2/50µs) between coil and contact
- Meets EN 60335-1 glow wire requirements
- 95 series sockets for PCB or 35 mm rail mounting (EN 60715) with Screw, Screwless or Push-in terminals
- Coil Indication and EMC suppression modules 99 series and Timer module 86.30 options
- Environmental protection:  
RT II - flux proof (Standard)  
RT III - wash tight (Option)

\* mounted on sockets ≤ 10 A

For outline drawing see page 10

**Contact specification**

Contact configuration	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current	A 12*/20	16/30
Rated voltage/Maximum switching voltage	V AC 250/400	250/400
Rated load AC1	VA 3000	4000
Rated load AC15 (230 V AC)	VA 1000	1000
Single phase motor rating (230 V AC)	kW 0.55	0.55
Breaking capacity DC1: 30/110/220 V	A 12/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA) 300 (5/5)	500 (10/5)
Standard contact material	AgNi	AgCdO

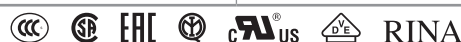
**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	—	—
	V DC	12 - 24	12 - 24
Rated power DC/sensitive DC	W	0.65/0.5	0.65/0.5
Operating range	AC	—	—
	DC/sensitive DC	(0.73...1.5)U <sub>N</sub> / (0.73...1.5)U <sub>N</sub>	(0.73...1.5)U <sub>N</sub> / (0.8...1.5)U <sub>N</sub>
Holding voltage	DC	0.4 U <sub>N</sub>	0.4 U <sub>N</sub>
Must drop-out voltage	DC	0.1 U <sub>N</sub>	0.1 U <sub>N</sub>

**Technical data**

Mechanical life	cycles	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	200 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time	ms	7/3 (10/3 sensitive)	7/3 (10/3 sensitive)
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...+85	-40...+85
Environmental protection		RT II**	RT II**

**Approvals** (according to type)



\*\* See general technical information "Guidelines for automatic flow solder processes" page II.

<b>40.31</b>	<b>40.61</b>
<ul style="list-style-type: none"> <li>• 1 CO 12 A on PCB, 10 A with socket</li> <li>• 3.5 mm pin pitch</li> <li>• PCB or 95 Series socket mount</li> </ul>	<ul style="list-style-type: none"> <li>• 1 CO 16 A</li> <li>• 5.0 mm pin pitch</li> <li>• PCB or 95 Series socket mount</li> </ul>
  Copper side view Pin length 3.5 mm for PCB only Pin length 5.3 mm for PCB or sockets See ordering information	  Copper side view Pin length 3.5 mm for PCB only Pin length 5.3 mm for PCB or sockets See ordering information

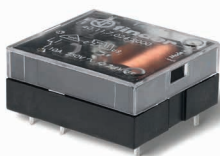
## PCB relay

## Type 40.11

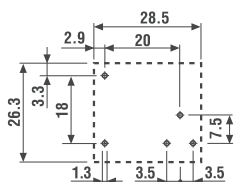
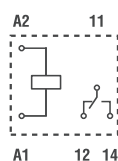
- 1 CO 10 A - flat pack

- DC (sensitive) coils
- Cadmium-free contact material available
- 8 mm Creepage and Clearance, 6 kV (1.2/50µs) between coil and contact

## 40.11



- 1 CO 10 A
- PCB mount 12.7 mm high



Copper side view

Pin length 3.5 mm for PCB only

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 10

## Contact specification

Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	10/20
Rated voltage/ Maximum switching voltage	V AC	250/400
Rated load AC1	VA	2500
Rated load AC15 (230 V AC)	VA	500
Single phase motor rating (230 V AC)	kW	0.37
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)
Standard contact material		AgCdO

## Coil specification

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	—
	V DC	6 - 12 - 24 - 48 - 60
Rated power AC/DC/sens. DC	VA (50 Hz)/W/W	—/—/0.5
Operating range	AC	—
	DC/sens. DC	—/(0.73...1.75)U <sub>N</sub>
Holding voltage	AC/DC	—/0.4 U <sub>N</sub>
Must drop-out voltage	AC/DC	—/0.1 U <sub>N</sub>

## Technical data

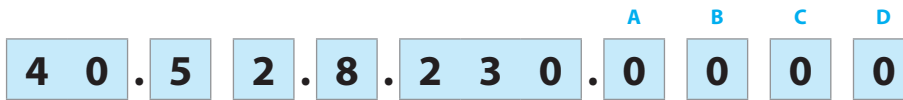
Mechanical life	cycles	20 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	200 · 10 <sup>3</sup>
Operate/release time	ms	12/4
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)
Dielectric strength between open contacts	V AC	1000
Ambient temperature range	°C	-40...+70
Environmental protection		RT I

## Approvals (according to type)



**Ordering information**

Example: 40 series PCB relay, 2 CO, 230 V AC coil.



- Series**  
**Type**  
1 = PCB - 3.5 mm pinning, flat  
3 = PCB/Plug-in - 3.5 mm pinning  
5 = PCB/Plug-in - 5 mm pinning  
6 = PCB/Plug-in - 5 mm pinning
- No. of poles**  
1 = 1 pole  
2 = 2 pole
- Coil version**  
6 = AC/DC bistable  
7 = Sensitive DC, 0.5 W  
8 = AC (50/60 Hz)  
9 = Standard DC, 0.65 W
- Coil voltage**  
See coil specifications

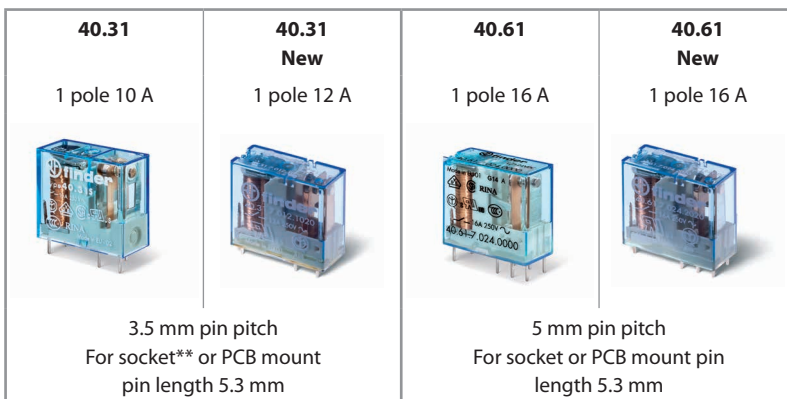
- A: Contact material**  
See table below
- B: Contact circuit**  
0 = CO (nPDT)  
3 = NO (nPST)

- D: Special versions**  
0 = Standard  
1 = Wash tight (RT III)  
3 = High temperature (+125 °C) wash tight
- C: Options**  
0 = Pin length 5.3 mm (Plug-in relays)  
2 = Pin length 3.5 mm (PCB relays)

**Selecting features and options: only combinations in the same row are possible.**

Preferred selections for best availability are shown in **bold**.

Terminal pin	Type	Coil version	A	B	C	D
PCB relay, pin length 3.5 mm	40.11	Sensitive DC	<b>2</b> (AgCdO) - 4 (AgSnO <sub>2</sub> )	<b>0</b>	<b>0</b>	<b>0</b>
	40.31*	Standard DC/sensitive DC	<b>1</b> (AgNi)	<b>0</b> - 3	<b>2</b>	<b>0</b> - 1
	40.61*	Standard DC/sensitive DC	1 (AgNi) - <b>2</b> (AgCdO)	<b>0</b> - 3	<b>2</b>	<b>0</b> - 1
PCB/Plug-in relay pin length 5.3 mm	40.31*/51	AC/sensitive DC	<b>0</b> (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	<b>0</b> - 3	<b>0</b>	<b>0</b> - 1
	40.31*/51	Standard DC	<b>0</b> (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	<b>0</b> - 3	<b>0</b>	<b>0</b> - 1 - 3
	40.52	AC/sensitive DC	<b>0</b> (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	<b>0</b> - 3	<b>0</b>	<b>0</b> - 1
	40.52	Standard DC	<b>0</b> (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	<b>0</b> - 3	<b>0</b>	<b>0</b> - 1 - 3
	40.61*	AC/sensitive DC	<b>0</b> (AgCdO) - 4 (AgSnO <sub>2</sub> )	<b>0</b> - 3	<b>0</b>	<b>0</b> - 1
	40.61*	Standard DC	<b>0</b> (AgCdO) - 4 (AgSnO <sub>2</sub> )	<b>0</b> - 3	<b>0</b>	<b>0</b> - 1 - 3
	40.31/51/52	Bistable	<b>0</b> (AgNi)	<b>0</b>	<b>0</b>	<b>0</b>
	40.61	Bistable	<b>0</b> (AgCdO)	<b>0</b>	<b>0</b>	<b>0</b>



\* As the result of new production lines and increased production capacity, the design/specification of the DC versions with standard contact material is being changed to align with PCB relay versions 40.x1...20. For full technical data refer to page 3.

\*\* For 40.31 relays mounted on sockets, the maximum rated current must be limited to 10 A.

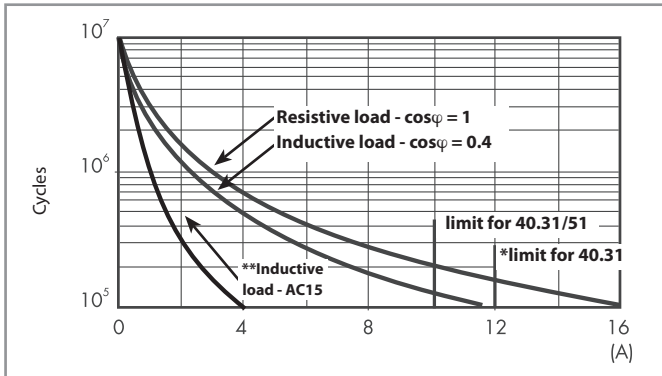
## Technical data

A

Insulation according to EN 61810-1					
		1 pole		2 pole	
Nominal voltage of supply system	V AC	230/400		230/400	
Rated insulation voltage	V AC	250	400	250	400
Pollution degree		3	2	3	2
Insulation between coil and contact set					
Type of insulation		Reinforced (8 mm)		Reinforced (8 mm)	
Overvoltage category		III		III	
Rated impulse voltage	kV (1.2/50 μs)	6		6	
Dielectric strength	V AC	4000		4000	
Insulation between adjacent contacts					
Type of insulation		—		Basic	
Overvoltage category		—		II	
Rated impulse voltage	kV (1.2/50 μs)	—		2.5	
Dielectric strength	V AC	—		2000	
Insulation between open contacts					
Type of disconnection		Micro-disconnection		Micro-disconnection	
Dielectric strength	V AC/kV (1.2/50 μs)	1000/1.5		1000/1.5	
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	2/5			
Vibration resistance (10...150)Hz: NO/NC	g	20/5 (1 changeover)		14/2 (2 changeover)	
Shock resistance NO/NC	g	20/13 (1 changeover)		20/12 (2 changeover)	
Power lost to the environment	without contact current	W	0.65		
	with rated current	W	1.2 (40.11/31/51)	2 (40.61/52)	
Recommended distance between relays mounted on PCB	mm	≥ 5			

**Contact specification**

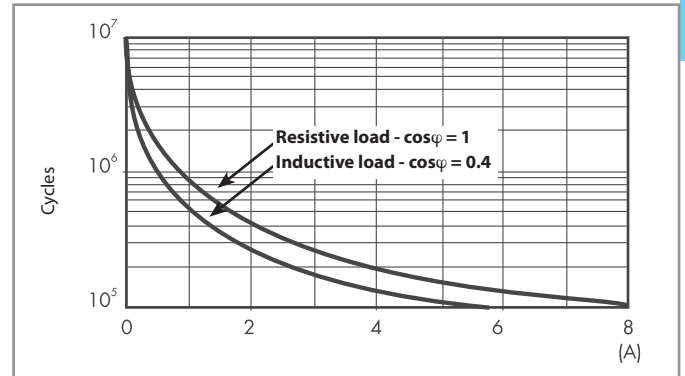
**F 40 - Electrical life (AC) v contact current**  
Types 40.31/51/61



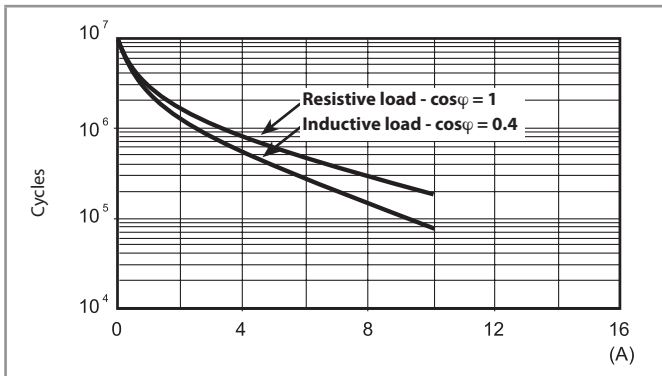
\* limit for 40.31, see page 3

\*\* Inductive load - AC15 for 40.31/61, see page 3

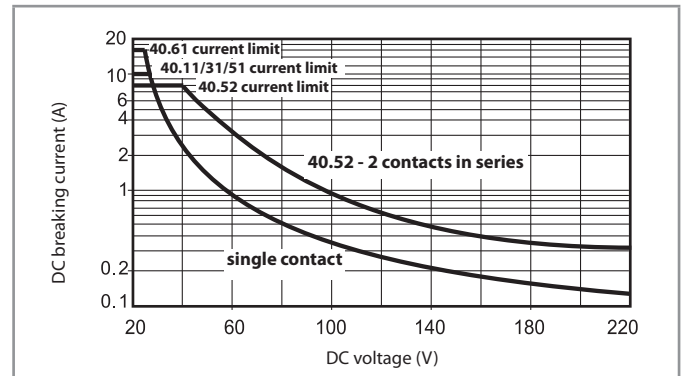
**F 40 - Electrical life (AC) v contact current**  
Types 40.52



**F 40 - Electrical life (AC) v contact current**  
Types 40.11



**H 40 - Maximum DC1 breaking capacity**



- 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

A

**DC coil data - 0.65 W standard** (types 40.31/51/52/61)

Nominal voltage $U_N$	Coil code	Operating range		Resistance R	Rated coil consumption I at $U_N$
		$U_{min}$	$U_{max}$		
V		V	V	$\Omega$	mA
5	9.005	3.65	7.5	38	130
6	9.006	4.4	9	55	109
7	9.007	5.1	10.5	75	94
9	9.009	6.6	13.5	125	72
12	9.012	8.8	18	220	55
14	9.014	10.2	21	300	47
18	9.018	13.1	27	500	36
21	9.021	15.3	31.5	700	30
24	9.024	17.5	36	900	27
28	9.028	20.5	42	1200	23
36	9.036	26.3	54	2000	18
48	9.048	35	72	3500	14
60	9.060	43.8	90	5500	11
90	9.090	65.7	135	12500	7.2
110	9.110	80.3	165	18000	6.2
125	9.125	91.2	188	23500	5.3

**DC coil data - 0.5 W sensitive** (types 40.31/51/52/61)

Nominal voltage $U_N$	Coil code	Operating range		Resistance R	Rated coil consumption I at $U_N$
		$U_{min}$	$U_{max}$		
V		V	V	$\Omega$	mA
5	7.005	3.7	7.5	50	100
6	7.006	4.4	9	75	80
7	7.007	5.1	10.5	100	70
9	7.009	6.6	13.5	160	56
12	7.012	8.8	18	288	42
14	7.014	10.2	21	400	35
18	7.018	13.2	27	650	27.7
21	7.021	15.4	31.5	900	23.4
24	7.024	17.5	36	1150	21
28	7.028	20.5	42	1600	17.5
36	7.036	26.3	54	2600	13.8
48	7.048	35	72	4800	10
60	7.060	43.8	90	7200	8.4
90	7.090	65.7	135	16200	5.6
110	7.110	80.3	165	23500	4.7
125	7.125	91.2	188	32000	3.9

\*  $U_{min} = 0.8 U_N$  for 40.61
**DC coil data - 0.5 W sensitive** (types 40.11)

Nominal voltage $U_N$	Coil code	Operating range		Resistance R	Rated coil consumption I at $U_N$
		$U_{min}$	$U_{max}$		
V		V	V	$\Omega$	mA
6	7.006	4.4	10.5	75	80
12	7.012	8.8	21	300	40
24	7.024	17.5	42	1200	20
48	7.048	35	84	4600	10.4
60	7.060	43.8	105	7200	8.3

**AC coil data** (types 40.31/51/52/61)

Nominal voltage $U_N$	Coil code	Operating range		Resistance R	Rated coil consumption I at $U_N$ (50 Hz)
		$U_{min}$	$U_{max}$		
V		V	V	$\Omega$	mA
6	8.006	4.8	6.6	21	168
12	8.012	9.6	13.2	80	90
24	8.024	19.2	26.4	320	45
48	8.048	38.4	52.8	1350	21
60	8.060	48	66	2100	16.8
110	8.110	88	121	6900	9.4
120	8.120	96	132	9000	8.4
230	8.230	184	253	28000	5
240	8.240	192	264	31500	4.1

**AC/DC coil data - bistable** (types 40.31/51/52/61)

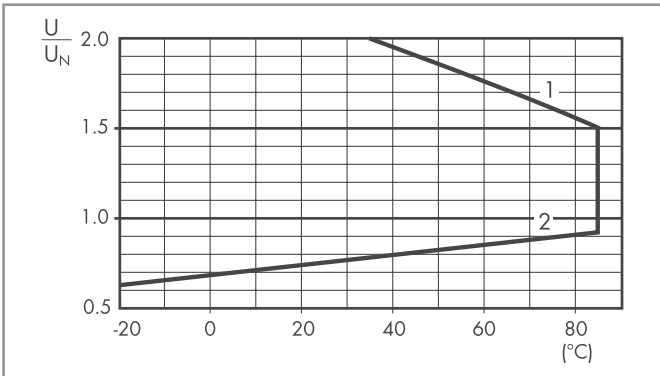
Nominal voltage $U_N$	Coil code	Operating range		Resistance R	Rated coil consumption I at $U_N$	DC: Release resistance** $R_{DC}$
		$U_{min}$	$U_{max}$			
V		V	V	$\Omega$	mA	$\Omega$
5	6.005	4	5.5	23	215	37
6	6.006	4.8	6.6	33	165	62
12	6.012	9.6	13.2	130	83	220
24	6.024	19.2	26.4	520	40	910
48	6.048	38.4	52.8	2100	21	3,600
110	6.110	88	121	11000	10	16,500

\*\*  $R_{DC}$  = Resistance in DC,  $R_{AC} = 1.3 \times R_{DC}$  1 W

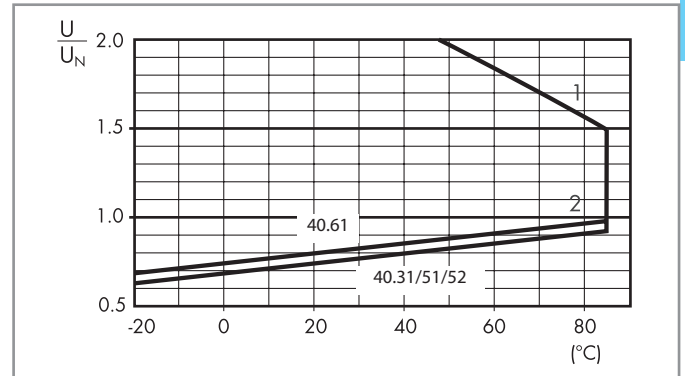


**Contact specification**

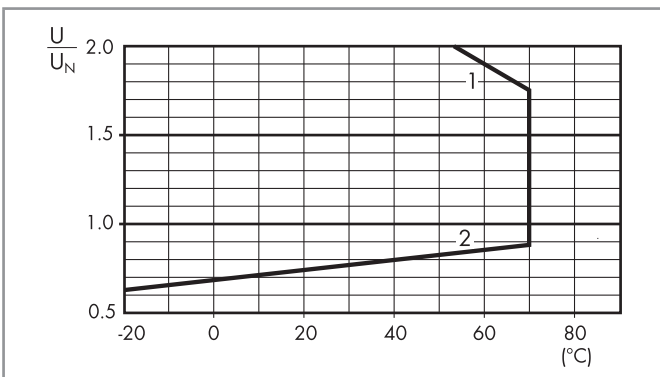
**R 40 - DC coil operating range v ambient temperature**  
Standard coil



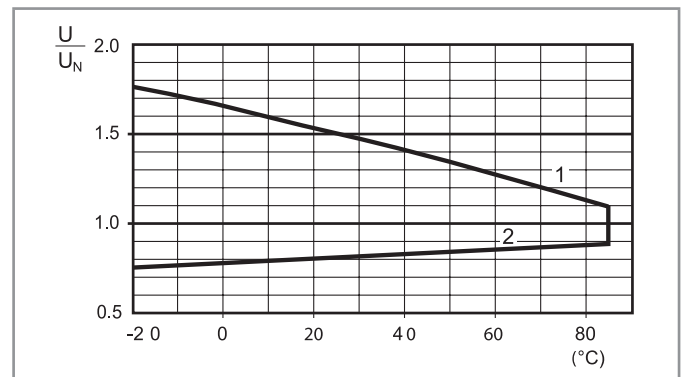
**R 40 - DC coil operating range v ambient temperature**  
Sensitive coil, types 40.31/51/52/61



**R 40 - DC coil operating range v ambient temperature**  
Sensitive coil, type 40.11



**R 40 - AC coil operating range v ambient temperature**

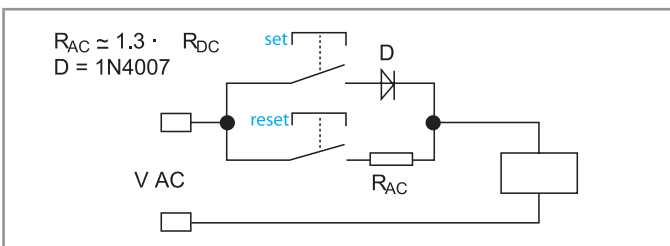


1 - Max. permitted coil voltage.  
2 - Min. pick-up voltage with coil at ambient temperature.

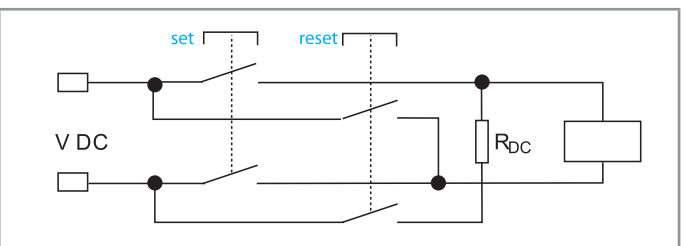
1 - Max. permitted coil voltage.  
2 - Min. pick-up voltage with coil at ambient temperature.

**Wiring diagram for 40 series bistable coil version**

**AC Operation**



**DC Operation**



On momentary closure of the SET switch the relay is magnetised through the diode and the relay contacts transfer to the set position and remain in this position.

On momentary closure of the RESET switch the relay is demagnetised through limiting resistor ( $R_{AC}$ ) and the contacts return to the reset position.

On momentary closure of the SET switch the relay is magnetised and the relay contacts transfer to the set position and remain in this position.

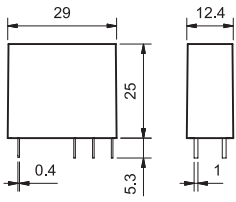
On momentary closure of the RESET switch the relay is demagnetised through limiting resistor ( $R_{DC}$ ) and the contacts return to the reset position.

**Notes:** The minimum SET or RESET impulse time is 20 ms. The maximum time can be continuous. In practice, always ensure that the SET and RESET contacts cannot be operated simultaneously.

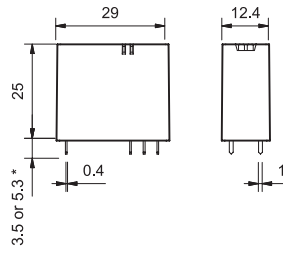
Outline drawings

A

Type 40.31/51/52/61

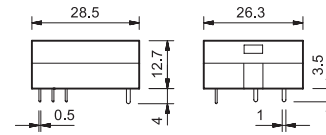


Type 40.31/61



\* (3.5 or 5.3 mm) see ordering code

Type 40.11



NEW



95.P5  
See page 12



Module	Socket	Relay	Description	Mounting	Accessories
99.02	95.P3	40.31	<b>Push-in terminal sockets</b> - For fast cable connection - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Timer modules - Plastic retaining and release clip
	95.P5	40.51 40.52 40.61			



95.05  
See page 14



Module	Socket	Relay	Description	Mounting	Accessories
99.02	95.03	40.31	<b>Screw terminal (Box clamp) socket</b> - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Timer modules - Plastic retaining and release clip
	95.05	40.51 40.52 40.61			



95.55  
See page 15



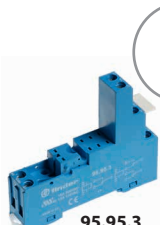
Module	Socket	Relay	Description	Mounting	Accessories
99.02	95.55	40.51 40.52 40.61	<b>Screwless terminal socket</b> - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Timer modules - Plastic retaining and release clip



95.85.3  
See page 16



Module	Socket	Relay	Description	Mounting	Accessories
99.80	95.83.3	40.31	<b>Screw terminal (Box clamp) socket</b> - Top terminals - NO and COM Contacts - Bottom terminals - Coil and NC Contacts	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Plastic retaining and release clip
	95.85.3	40.51 40.52 40.61			



95.95.3  
See page 17



Module	Socket	Relay	Description	Mounting	Accessories
99.80	95.93.3	40.31	<b>Screw terminal (Box clamp) socket</b> - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Plastic retaining and release clip
	95.95.3	40.51 40.52 40.61			



95.65  
See page 18



Module	Socket	Relay	Description	Mounting	Accessories
99.01	95.63	40.31	<b>Screw terminal (Box clamp) socket</b> - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Metal retaining clip
	95.65	40.51 40.52 40.61			



95.13.2  
See page 19

Module	Socket	Relay	Description	Mounting	Accessories
—	95.13.2	40.31	<b>PCB socket</b>	PCB mounting	- Metal retaining clip - Plastic retaining clip
—	95.15.2	40.51			
		40.52 40.61			

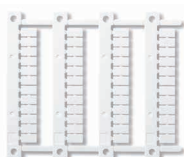
A



**95.P5**  
Approvals  
(according to type):



**095.91.3**

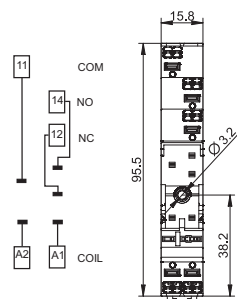
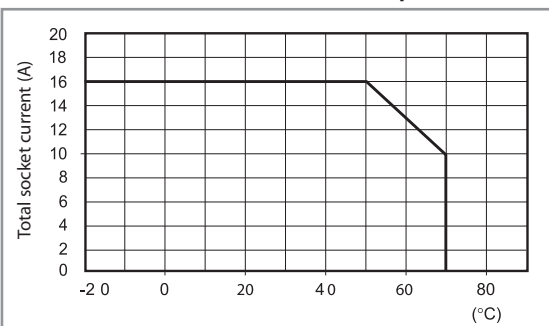


**060.48**

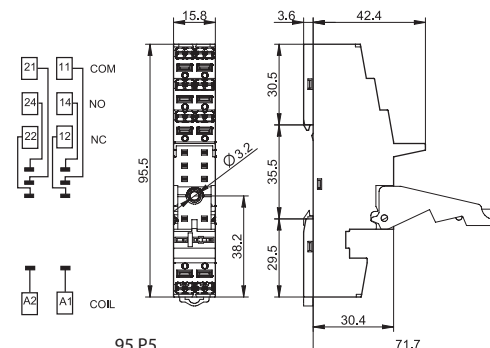
<b>Push-in terminals socket</b> panel or 35 mm rail mount	<b>95.P3</b>	<b>95.P5</b>
For relay type	40.31	40.51, 40.52, 40.61
<b>Accessories</b>		
Metal retaining clip		095.71
Plastic retaining and release clip (supplied with socket - packaging code SPA)		095.91.3
8-way jumper link		097.58
2-way jumper link (12.5 mm pitch)		097.52
2-way jumper link (4.6 mm pitch)		097.42
Marker tag holder (for tags 060.48 type)		097.00
Identification tag		095.00.4
Modules (see table below)		99.02
Timer modules (see table below)		86.30
Sheet of marker tags for plastic retaining and release clip 095.91.3 and for marker tag holder 097.00, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfert printer		060.48
<b>Technical data</b>		
Rated values	10 A - 250 V*	
Dielectric strength	6 kV (1.2/50 μs) between coil and contacts	
Protection category	IP 20	
Ambient temperature	°C	-40...+70 (see diagram L95)
Wire strip length	mm	8
Min. wire size for 95.P3 and 95.P5 sockets	solid wire	stranded wire
	mm <sup>2</sup>	0.5
	AWG	21
Max. wire size for 95.P3 and 95.P5 sockets	solid wire	stranded wire
	mm <sup>2</sup>	2 x 1.5 / 1 x 2.5
	AWG	2 x 18 / 1 x 14

\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.

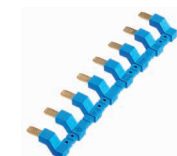
**L 95 - Total socket current vs ambient temperature**



95.P3

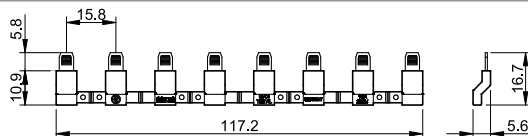


95.P5



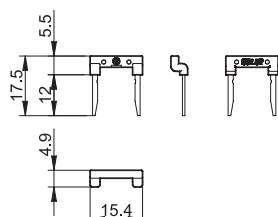
**097.58**

<b>8-way jumper link</b> for 95.P3 and 95.P5 sockets	<b>097.58</b>
Rated values	10 A - 250 V



**097.52**

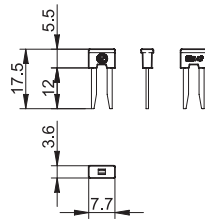
<b>2-way jumper link</b> for 95.P3 and 95.P5 sockets	<b>097.52</b>
Rated values	10 A - 250 V





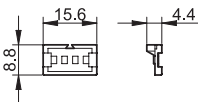
097.42

<b>2-way jumper link</b> for 95.P3 and 95.P5 sockets	097.42
Rated values	10 A - 250 V



097.00

<b>Marker tag holder</b> for 95.P3 and 95.P5 sockets	097.00
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86.30

<b>86 series timer modules</b>	
(12...24)V AC/DC; Bi-function: AI, DI; (0.05 s...100 h)	86.30.0.024.0000
(110...125)V AC; Bi-function: AI, DI; (0.05 s...100 h)	86.30.8.120.0000
(230...240)V AC; Bi-function: AI, DI; (0.05 s...100 h)	86.30.8.240.0000

Approvals (according to type):



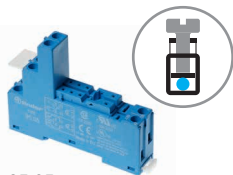
99.02

Approvals  
(according to type):

DC Modules with  
non-standard polarity  
(+A2) on request.

<b>99.02 coil indication and EMC suppression modules</b> for 95.P3 and 95.P5 sockets		
Diode (+A1, standard polarity)	(6...220)V DC	99.02.3.000.00
LED	(6...24)V DC/AC	99.02.0.024.59
LED	(28...60)V DC/AC	99.02.0.060.59
LED	(110...240)V DC/AC	99.02.0.230.59
LED + Diode (+A1, standard polarity)	(6...24)V DC	99.02.9.024.99
LED + Diode (+A1, standard polarity)	(28...60)V DC	99.02.9.060.99
LED + Diode (+A1, standard polarity)	(110...220)V DC	99.02.9.220.99
LED + Varistor	(6...24)V DC/AC	99.02.0.024.98
LED + Varistor	(28...60)V DC/AC	99.02.0.060.98
LED + Varistor	(110...240)V DC/AC	99.02.0.230.98
RC circuit	(6...24)V DC/AC	99.02.0.024.09
RC circuit	(28...60)V DC/AC	99.02.0.060.09
RC circuit	(110...240)V DC/AC	99.02.0.230.09
Residual current by-pass	(110...240)V AC	99.02.8.230.07

A



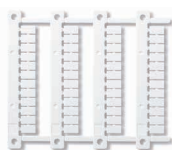
95.05  
Approvals  
(according to type):



cULUS  
Certain relay/socket combinations



095.01



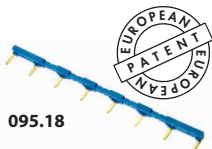
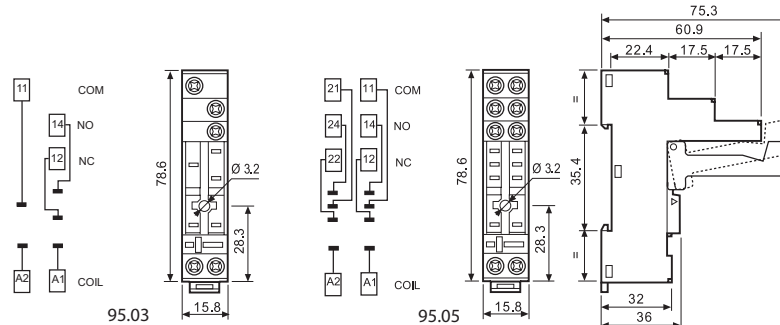
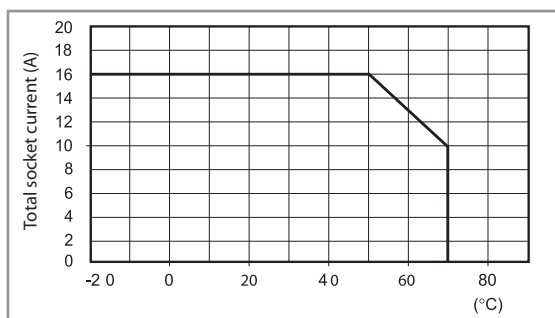
060.48

NEW

<b>Screw terminal (Box clamp) socket panel or 35 mm rail mount</b>	<b>95.03 (blue)</b>	<b>95.03.0 (black)</b>	<b>95.05 (blue)</b>	<b>95.05.0 (black)</b>
For relay type	40.31		40.51, 40.52, 40.61	
<b>Accessories</b>				
Metal retaining clip			095.71	
Plastic retaining and release clip (supplied with socket - packaging code SPA)	095.01	095.01.0	095.01	095.01.0
8-way jumper link	095.18	095.18.0	095.18	095.18.0
Marker tag holder (for tags 060.48 type)			097.00	
Identification tag			095.00.4	
Modules (see table below)			99.02	
Timer modules (see table below)			86.30	
Sheet of marker tags for plastic retaining and release clip 095.01 and for marker tag holder 097.00, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfer printers			060.48	
<b>Technical data</b>				
Rated values	10 A - 250 V*			
Dielectric strength	6 kV (1.2/50 μs) between coil and contacts			
Protection category	IP 20			
Ambient temperature	°C -40...+70 (see diagram L95)			
⊕ Screw torque	Nm 0.5			
Wire strip length	mm 8			
Max. wire size for 95.03 and 95.05 sockets	solid wire		stranded wire	
	mm <sup>2</sup> 1 x 6 / 2 x 2.5		1 x 4 / 2 x 2.5	
	AWG 1 x 10 / 2 x 14		1 x 12 / 2 x 14	

\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.

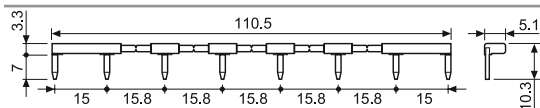
**L 95 - Total socket current vs ambient temperature**



95.18



<b>8-way jumper link for 95.03 and 95.05 sockets</b>	<b>095.18 (blue)</b>	<b>095.18.0 (black)</b>
Rated values	10 A - 250 V	



86.30

<b>86 series timer modules</b>		
(12...24)V AC/DC; Bi-function: AI, DI; (0.05 s...100 h)	86.30.0.024.0000	
(110...125)V AC; Bi-function: AI, DI; (0.05 s...100 h)	86.30.8.120.0000	
(230...240)V AC; Bi-function: AI, DI; (0.05 s...100 h)	86.30.8.240.0000	

Approvals (according to type):



99.02

Approvals  
(according to type):



DC Modules with non-standard polarity (+A2) on request.

<b>99.02 coil indication and EMC suppression modules for 95.03 and 95.05 sockets</b>		
Diode (+A1, standard polarity)	(6...220)V DC	99.02.3.000.00
LED	(6...24)V DC/AC	99.02.0.024.59
LED	(28...60)V DC/AC	99.02.0.060.59
LED	(110...240)V DC/AC	99.02.0.230.59
LED + Diode (+A1, standard polarity)	(6...24)V DC	99.02.9.024.99
LED + Diode (+A1, standard polarity)	(28...60)V DC	99.02.9.060.99
LED + Diode (+A1, standard polarity)	(110...220)V DC	99.02.9.220.99
LED + Varistor	(6...24)V DC/AC	99.02.0.024.98
LED + Varistor	(28...60)V DC/AC	99.02.0.060.98
LED + Varistor	(110...240)V DC/AC	99.02.0.230.98
RC circuit	(6...24)V DC/AC	99.02.0.024.09
RC circuit	(28...60)V DC/AC	99.02.0.060.09
RC circuit	(110...240)V DC/AC	99.02.0.230.09
Residual current by-pass	(110...240)V AC	99.02.8.230.07



Approvals  
(according to type):



095.91.3

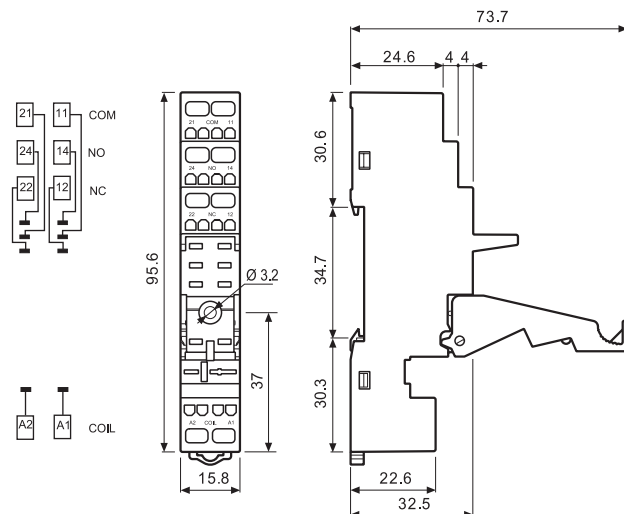
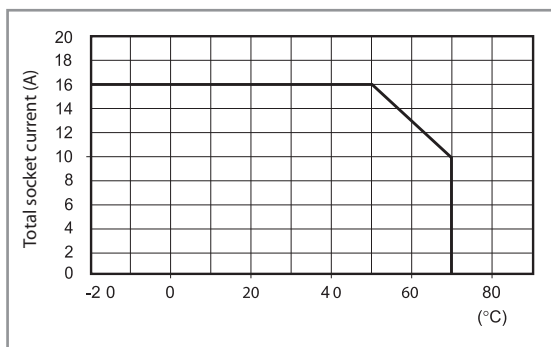


060.48

Screwless terminal socket panel or 35 mm rail mount	95.55 (blue)	95.55.0 (black)
For relay type	40.51, 40.52, 40.61	
<b>Accessories</b>		
Metal retaining clip	095.71	
Plastic retaining and release clip (supplied with socket - packaging code SPA)	095.91.3	
Modules (see table below)	99.02	
Timer modules (see table below)	86.30	
Sheet of marker tags for plastic retaining and release clip 095.91.3, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfer printers	060.48	
<b>Technical data</b>		
Rated values	10 A - 250 V*	
Dielectric strength	6 kV (1.2/50 μs) between coil and contacts	
Protection category	IP 20	
Ambient temperature	°C -25...+70 (see diagram L95)	
Wire strip length	mm 8	
Max. wire size for 95.55 socket	solid wire	stranded wire
	mm <sup>2</sup>	2 x (0.5...1.5)
	AWG	2 x (21...18)

\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.

L 95 - Total socket current vs ambient temperature



86.30

86 series timer modules		
(12...24)V AC/DC; Bi-function: AI, DI; (0.05 s...100 h)		86.30.0.024.0000
(110...125)V AC; Bi-function: AI, DI; (0.05 s...100 h)		86.30.8.120.0000
(230...240)V AC; Bi-function: AI, DI; (0.05 s...100 h)		86.30.8.240.0000

Approvals (according to type):



99.02

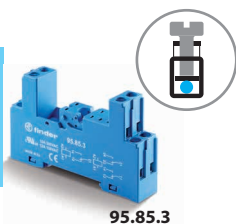
Approvals  
(according to type):



DC Modules with  
non-standard polarity  
(+A2) on request.

99.02 coil indication and EMC suppression modules for 95.55 socket		
Diode (+A1, standard polarity)	(6...220)V DC	99.02.3.000.00
LED	(6...24)V DC/AC	99.02.0.024.59
LED	(28...60)V DC/AC	99.02.0.060.59
LED	(110...240)V DC/AC	99.02.0.230.59
LED + Diode (+A1, standard polarity)	(6...24)V DC	99.02.9.024.99
LED + Diode (+A1, standard polarity)	(28...60)V DC	99.02.9.060.99
LED + Diode (+A1, standard polarity)	(110...220)V DC	99.02.9.220.99
LED + Varistor	(6...24)V DC/AC	99.02.0.024.98
LED + Varistor	(28...60)V DC/AC	99.02.0.060.98
LED + Varistor	(110...240)V DC/AC	99.02.0.230.98
RC circuit	(6...24)V DC/AC	99.02.0.024.09
RC circuit	(28...60)V DC/AC	99.02.0.060.09
RC circuit	(110...240)V DC/AC	99.02.0.230.09
Residual current by-pass	(110...240)V AC	99.02.8.230.07

A

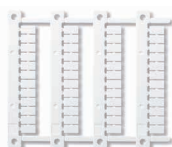


95.85.3

Approvals  
(according to type):



095.91.3



060.48

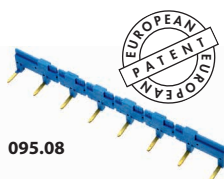
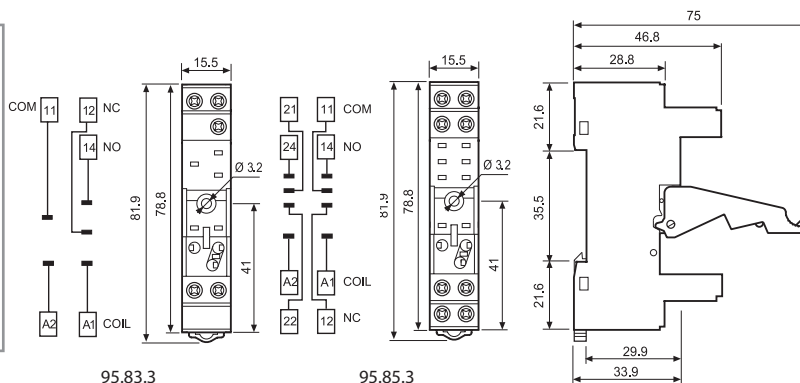
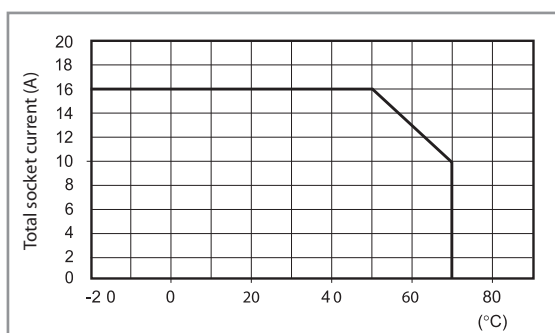
NEW

<b>Screw terminal (Box clamp) socket panel</b> or 35 mm rail mount	<b>95.83.3 (blue)</b>	<b>95.83.30 (black)</b>	<b>95.85.3 (blue)</b>	<b>95.85.30 (black)</b>
For relay type	40.31		40.51, 40.52, 40.61	
<b>Accessories</b>				
Metal retaining clip			095.71	
Plastic retaining and release clip (supplied with socket - packaging code SPA)	095.91.3	095.91.30	095.91.3	095.91.30
8-way jumper link	095.08	095.08.0	095.08	095.08.0
Identification tag			095.00.4	
Modules (see table below)			99.80	
Marker tag holder			097.00	
Sheet of marker tags for plastic retaining and release clip 095.91.3, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfert printer			060.48	
<b>Technical data</b>				
Rated values	10 A - 250 V*			
Dielectric strength	6 kV (1.2/50 µs) between coil and contacts (95.83.3 only)			
Protection category	IP 20			
Ambient temperature	°C	-40...+70 (see diagram L95)		
Screw torque	Nm	0.5		
Wire strip length	mm	7		
Max. wire size for 95.83.3 and 95.85.3 sockets		solid wire	stranded wire	
	mm <sup>2</sup>	1 x 6 / 2 x 2.5	1 x 4 / 2 x 2.5	
	AWG	1 x 10 / 2 x 14	1 x 12 / 2 x 14	

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

With the relay 40.51 the change-over contact will be 21-12-14.

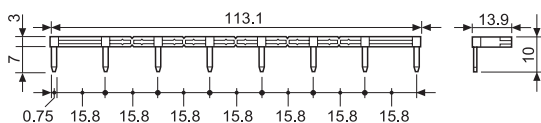
**L 95 - Total socket current vs ambient temperature**



095.08



<b>8-way jumper link</b> for 95.83.3 and 95.85.3 sockets	<b>095.08 (blue)</b>	<b>095.08.0 (black)</b>
Rated values	10 A - 250 V	



99.80

Approvals  
(according to type):

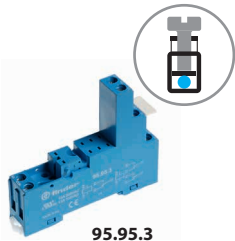


\* Modules in Black housing are available on request.

Green LED is standard.  
Red LED available on request.

99.80 coil indication and EMC suppression modules for 95.83.3 and 95.85.3 sockets		Blue*
Diode (+A1, standard polarity)	(6...220)V DC	99.80.3.000.00
LED	(6...24)V DC/AC	99.80.0.024.59
LED	(28...60)V DC/AC	99.80.0.060.59
LED	(110...240)V DC/AC	99.80.0.230.59
LED + Diode (+A1, standard polarity)	(6...24)V DC	99.80.9.024.99
LED + Diode (+A1, standard polarity)	(28...60)V DC	99.80.9.060.99
LED + Diode (+A1, standard polarity)	(110...220)V DC	99.80.9.220.99
LED + Varistor	(6...24)V DC/AC	99.80.0.024.98
LED + Varistor	(28...60)V DC/AC	99.80.0.060.98
LED + Varistor	(110...240)V DC/AC	99.80.0.230.98
RC circuit	(6...24)V DC/AC	99.80.0.024.09
RC circuit	(28...60)V DC/AC	99.80.0.060.09
RC circuit	(110...240)V DC/AC	99.80.0.230.09
Residual current by-pass	(110...240)V AC	99.80.8.230.07



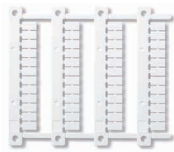


95.95.3

Approvals  
(according to type):



95.91.3

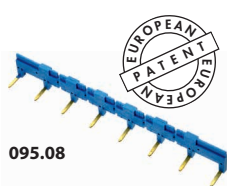
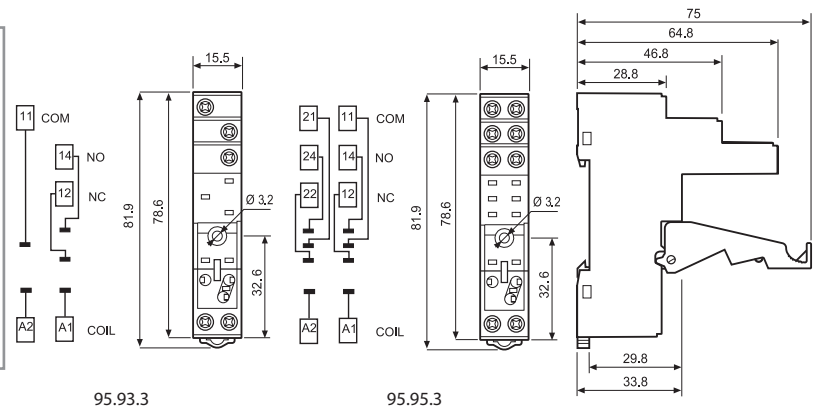
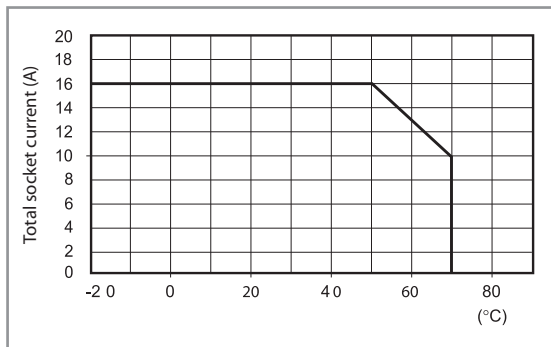


060.48

<b>Screw (Box clamp) terminal socket</b> panel or 35 mm rail mount	<b>95.93.3 (blue)</b>	<b>95.93.30 (black)</b>	<b>95.95.3 (blue)</b>	<b>95.95.30 (black)</b>
For relay type	40.31		40.51, 40.52, 40.61	
<b>Accessories</b>				
Metal retaining clip	095.71			
Plastic retaining and release clip (supplied with socket - packaging code SPA)	095.91.3	095.91.30	095.91.3	095.91.30
8-way jumper link	095.08	095.08.0	095.08	095.08.0
Identification tag	095.00.4			
Modules (see table below)	99.80			
Sheet of marker tags for plastic retaining and release clip 095.91.3 and for marker tag holder 097.00, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfer printers	060.48			
<b>Technical data</b>				
Rated values	10 A - 250 V*			
Dielectric strength	6 kV (1.2/50 μs) between coil and contacts			
Protection category	IP 20			
Ambient temperature	°C -40...+70 (see diagram L95)			
Screw torque	Nm	0.5		
Wire strip length	mm	8		
Max. wire size for 95.93.3 and 95.95.3 sockets		solid wire	stranded wire	
	mm <sup>2</sup>	1 x 6 / 2 x 2.5		1 x 4 / 2 x 2.5
	AWG	1 x 10 / 2 x 14		1 x 12 / 2 x 14

\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.

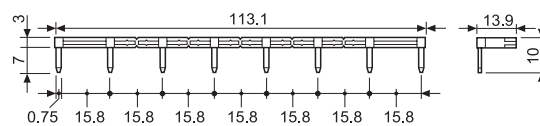
**L 95 - Total socket current vs ambient temperature**



95.08



<b>8-way jumper link</b> for 95.93.3 and 95.95.3 sockets	<b>095.08 (blue)</b>	<b>095.08.0 (black)</b>
Rated values	10 A - 250 V	



99.80

Approvals  
(according to type):



\* Modules in Black housing are available on request.

Green LED is standard.  
Red LED available on request.

<b>99.80 coil indication and EMC suppression modules</b> for 95.93.3 and 95.95.3 sockets		Blue*
Diode (+A1, standard polarity)	(6...220)V DC	99.80.3.000.00
LED	(6...24)V DC/AC	99.80.0.024.59
LED	(28...60)V DC/AC	99.80.0.060.59
LED	(110...240)V DC/AC	99.80.0.230.59
LED + Diode (+A1, standard polarity)	(6...24)V DC	99.80.9.024.99
LED + Diode (+A1, standard polarity)	(28...60)V DC	99.80.9.060.99
LED + Diode (+A1, standard polarity)	(110...220)V DC	99.80.9.220.99
LED + Varistor	(6...24)V DC/AC	99.80.0.024.98
LED + Varistor	(28...60)V DC/AC	99.80.0.060.98
LED + Varistor	(110...240)V DC/AC	99.80.0.230.98
RC circuit	(6...24)V DC/AC	99.80.0.024.09
RC circuit	(28...60)V DC/AC	99.80.0.060.09
RC circuit	(110...240)V DC/AC	99.80.0.230.09
Residual current by-pass	(110...240)V AC	99.80.8.230.07

A



**95.63**  
Approvals  
(according to type):



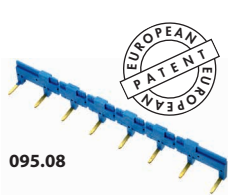
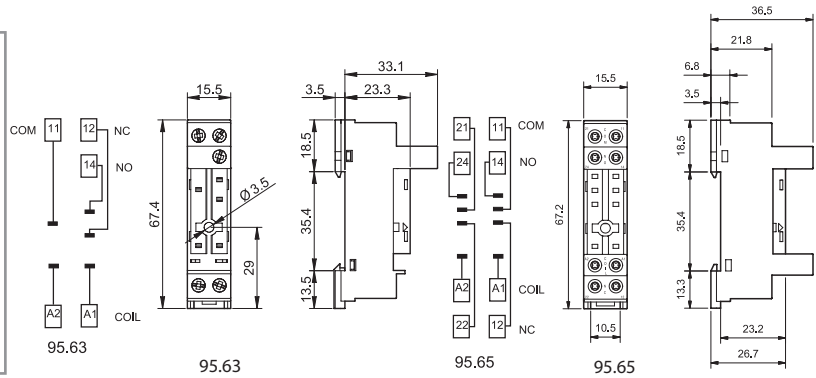
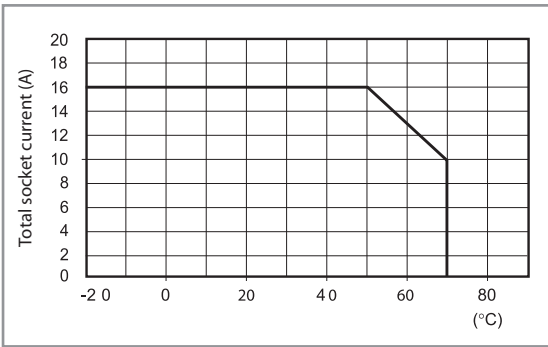
**95.65**  
Approvals  
(according to type):



<b>Screw terminal (Box clamp) socket panel or 35 mm rail mount</b>	<b>95.63</b>	<b>95.65</b>
For relay type	40.31	40.51, 40.52, 40.61
<b>Accessories</b>		
Metal retaining clip		095.71
8-way jumper link	095.08	095.08
Modules (see table below)	99.01	—
<b>Technical data</b>		
Rated values	10 A - 250 V*	
Dielectric strength (between coil and contacts)	6 kV (1.2/50 μs)	2 kV AC
Protection category	IP 20	
Ambient temperature	°C -40...+70 (see diagram L95)	
⊕ Screw torque	Nm	0.5
Wire strip length	mm	7
Max. wire size for 95.63 and 95.65 sockets	solid wire	stranded wire
	mm <sup>2</sup>	1 x 6 / 2 x 2.5
	AWG	1 x 10 / 2 x 14

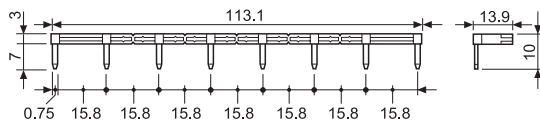
\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.

**L 95 - Total socket current vs ambient temperature**



**095.08**

<b>8-way jumper link for 95.63 and 95.65 sockets</b>	<b>095.08 (blue)</b>
Rated values	10 A - 250 V



**99.01**  
Approvals  
(according to type):



\* Modules in Black housing are available on request.

Green LED is standard.  
Red LED available on request.

<b>99.01 coil indication and EMC suppression modules for type 95.63 socket</b>		<b>Blue*</b>
Diode (+A1, standard polarity)	(6...220)V DC	99.01.3.000.00
Diode (+A2, non-standard polarity)	(6...220)V DC	99.01.2.000.00
LED	(6...24)V DC/AC	99.01.0.024.59
LED	(28...60)V DC/AC	99.01.0.060.59
LED	(110...240)V DC/AC	99.01.0.230.59
LED + Diode (+A1, standard polarity)	(6...24)V DC	99.01.9.024.99
LED + Diode (+A1, standard polarity)	(28...60)V DC	99.01.9.060.99
LED + Diode (+A1, standard polarity)	(110...220)V DC	99.01.9.220.99
LED + Diode (+A2, non-standard polarity)	(6...24)V DC	99.01.9.024.79
LED + Diode (+A2, non-standard polarity)	(28...60)V DC	99.01.9.060.79
LED + Diode (+A2, non-standard polarity)	(110...220)V DC	99.01.9.220.79
LED + Varistor	(6...24)V DC/AC	99.01.0.024.98
LED + Varistor	(28...60)V DC/AC	99.01.0.060.98
LED + Varistor	(110...240)V DC/AC	99.01.0.230.98
RC circuit	(6...24)V DC/AC	99.01.0.024.09
RC circuit	(28...60)V DC/AC	99.01.0.060.09
RC circuit	(110...240)V DC/AC	99.01.0.230.09
Residual current by-pass	(110...240)V AC	99.01.8.230.07



95.13.2



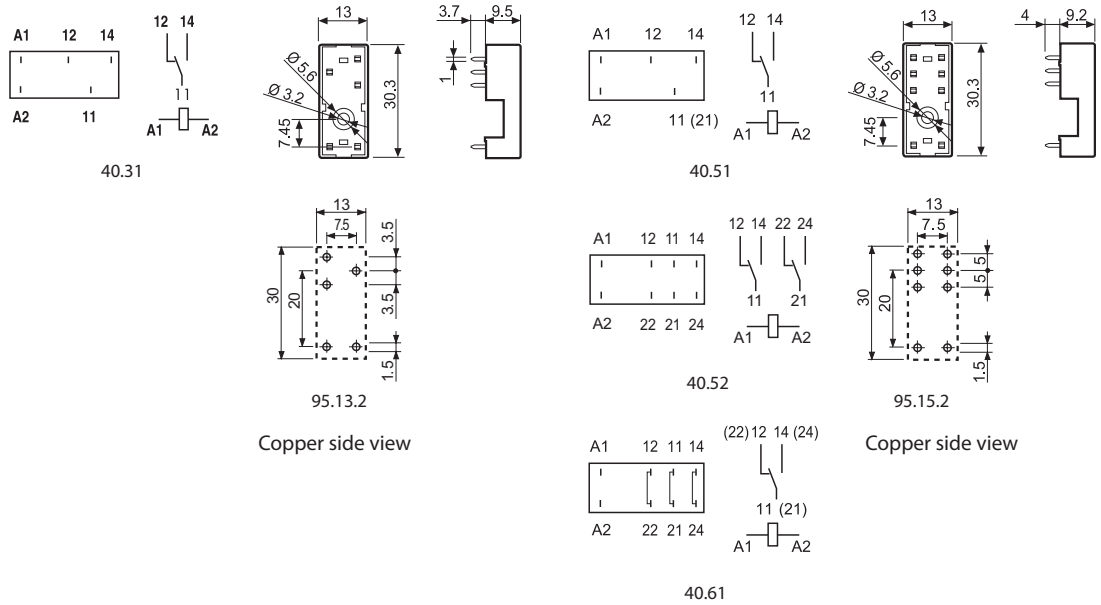
95.15.2

Approvals  
(according to type):



PCB socket	95.13.2 (blue)	95.13.20 (black)	95.15.2 (blue)	95.15.20 (black)
For relay type	40.31		40.51, 40.52, 40.61	
<b>Accessories</b>				
Metal retaining clip (supplied with socket - packaging code SMA)			095.51	
Plastic retaining clip			095.52	
<b>Technical data</b>				
Rated values	12 A - 250 V		10 A - 250 V*	
Dielectric strength	6 kV (1.2/50 μs) between coil and contacts			
Protection category	IP 20			
Ambient temperature	°C -40...+70			

\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.



### Packaging codes

How to code and identify retaining clip and packaging options for sockets.

Example:



**A** Standard packaging

**SM** Metal retaining clip  
**SP** Plastic retaining clip



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