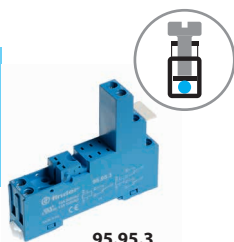


A

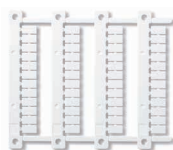


95.95.3

Approvals  
(according to type):



095.91.3

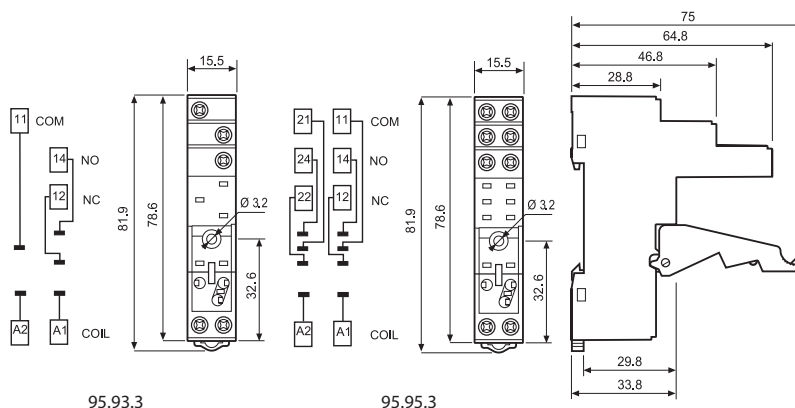
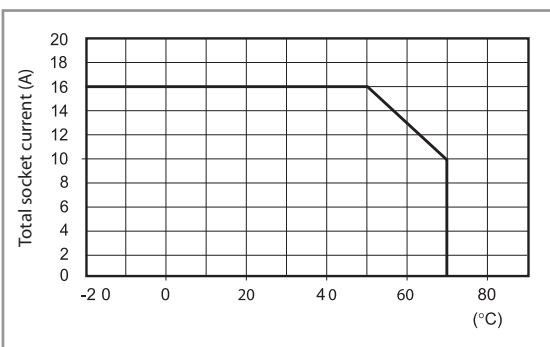


060.48

<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 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

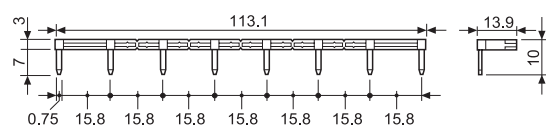
\* For currents > 10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).  
With the relay 40.51 the change-over contact will be 21-12-14.

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



095.08

<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		<b>Blue*</b>
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

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

**Type 40.31/51**

- 1 CO 12 A (3.5 mm pin pitch)
- 1 CO 12 A (5.0 mm pin pitch)

**Type 40.52**

- 2 CO 8 A (5.0 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

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

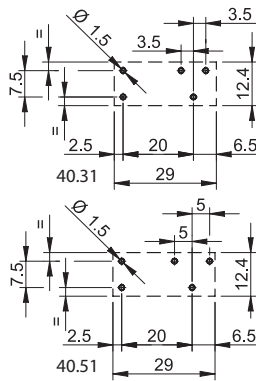
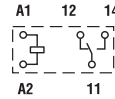
FOR UL RATINGS SEE:  
"General technical information" page V

For outline drawing see page 9

**40.31/51**



- 1 CO 12 A on PCB, 10 A with socket
- 3.5 mm pin pitch (40.31), 5.0 mm pin pitch (40.51)
- PCB or 95 Series socket mount



Copper side view

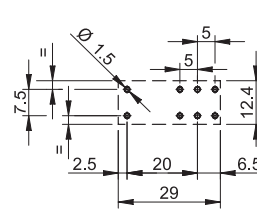
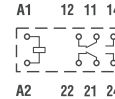
Pin length 3.5 mm for PCB only  
Pin length 5.3 mm for PCB or sockets

See ordering information

**40.52**



- 2 CO 8 A
- 5.0 mm pin pitch
- PCB or 95 Series socket mount

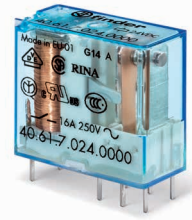


Copper side view

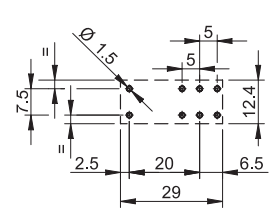
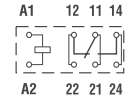
Pin length 3.5 mm for PCB only  
Pin length 5.3 mm for PCB or sockets

See ordering information

**40.61**



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



Copper side view

Pin length 3.5 mm for PCB only  
Pin length 5.3 mm for PCB or sockets

See ordering information

<b>Contact specification</b>		40.31/51	40.52	40.61
Contact configuration		1 CO (SPDT)	2 CO (DPDT)	1 CO (SPDT)
Rated current/Maximum peak current	A	12*/20	8/15	16/30**
Rated voltage/Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	3000	2000	4000
Rated load AC15 (230 V AC)	VA	1000	750	1000
Single phase motor rating (230 V AC)	kW	0.55	0.37	0.55
Breaking capacity DC1: 30/110/220 V	A	12/0.6/0.25	8/0.6/0.25	16/0.6/0.25
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	500 (10/5)
Standard contact material		AgNi	AgNi	AgCdO
<b>Coil specification</b>		40.31/51	40.52	40.61
Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	—	—	—
	V DC	5 - 6 - 7 - 9 - 12 - 14 - 18 - 21 - 24 - 28 - 36 - 48 - 60 - 90 - 110 - 125		
Rated power DC/sensitive DC	W	0.65/0.5	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>		
Holding voltage	DC	0.4 U <sub>N</sub>	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>	0.1 U <sub>N</sub>
<b>Technical data</b>		40.31/51	40.52	40.61
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>	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time	ms	7/3 (10/3 sensitive)	7/3 (12/4 sensitive)	7/3 (10/3 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.

A

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

**Type 40.31/51**

- 1 CO 10 A (3.5 mm pin pitch)
- 1 CO 10 A (5.0 mm pin pitch)

**Type 40.52**

- 2 CO 8 A (5.0 mm pin pitch)

**Type 40.61**

- 1 CO 16 A (5.0 mm pin pitch)

- AC or DC coils according to type
- Cadmium-free contact material
- 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)

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

FOR UL RATINGS SEE:

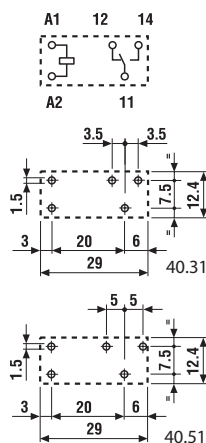
"General technical information" page V

For outline drawing see page 9

**40.31/51**



- 1 CO 10 A
- 3.5 mm pin pitch (40.31), 5.0 mm pin pitch (40.51)
- PCB or 95 Series socket mount

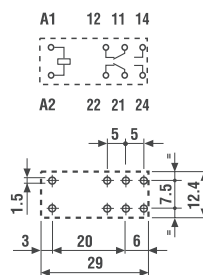


Copper side view  
Pin length 5.3 mm for PCB or sockets

**40.52**



- 2 CO 8 A
- 5.0 mm pin pitch
- PCB or 95 Series socket mount

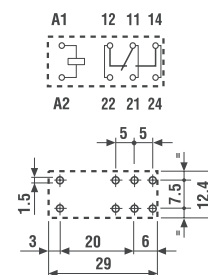


Copper side view  
Pin length 5.3 mm for PCB or sockets

**40.61**



- 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

**Contact specification**

Contact configuration		1 CO (SPDT)	2 CO (DPDT)	1 CO (SPDT)
Rated current/Maximum peak current	A	10/20	8/15	16/30*
Rated voltage/Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	2500	2000	4000
Rated load AC15 (230 V AC)	VA	500	400	750
Single phase motor rating (230 V AC)	kW	0.37	0.3	0.55
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12	8/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	500 (10/5)
Standard contact material		AgNi	AgNi	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	—	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/—/—	1.2/0.65/0.5	1.2/—/—
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>	—
Holding voltage	AC/DC	0.8 U <sub>N</sub> /—	0.8 U <sub>N</sub> /0.4 U <sub>N</sub>	0.8 U <sub>N</sub> /—
Must drop-out voltage	AC/DC	0.2 U <sub>N</sub> /—	0.2 U <sub>N</sub> /0.1 U <sub>N</sub>	0.2 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>	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time	ms	7/3	7/3 - (12/4 sensitive)	7/3
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.

**PCB relay**

**Type 40.11**

- 1 CO 10 A - flat pack
- DC (sensitive) coils

**Type 40.xx.6**

- Bistable versions of the types 40.31, 40.51, 40.52 and 40.61
- Bistable (single coil)
- 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
- 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 9

**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)	—	5 - 6 - 12 - 24 - 48 - 110
	V DC	6 - 12 - 24 - 48 - 60	
Rated power AC/DC/sens. DC	VA (50 Hz)/W/W	—/—/0.5	1.0/1.0/—
Operating range	AC	—	(0.8...1.1)U <sub>N</sub>
	DC/sens. DC	—/(0.73...1.75)U <sub>N</sub>	(0.8...1.1)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**

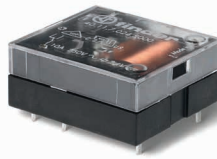
Mechanical life	cycles	20 · 10 <sup>6</sup>	See relays
Electrical life at rated load AC1	cycles	200 · 10 <sup>3</sup>	40.31
Operate/release time	ms	12/4	40.51
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)	40.52
Dielectric strength between open contacts	V AC	1000	40.61
Ambient temperature range	°C	-40...+70	Min. impulse duration
Environmental protection		RT I**	≥ 20 ms

**Approvals** (according to type)

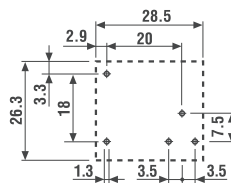
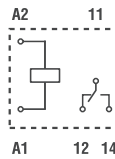


\*\* See general technical information "Guidelines for automatic flow solder processes" page II.

**40.11**



- 1 CO 10 A
- PCB mount 12.7 mm high



Copper side view

Pin length 3.5 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 8

Pin length 5.3 mm for PCB or sockets