

Features

1 & 2 Pole relay range

- 40.31 - 1 Pole 10 A (3.5 mm pin pitch)
- 40.51 - 1 Pole 10 A (5 mm pin pitch)
- 40.52 - 2 Pole 8 A (5 mm pin pitch)

PCB mount

- direct or via PCB socket
- 35 mm rail mount
- via screw and screwless sockets

- DC coils (standard or sensitive) & AC coils
- Cadmium Free contact material
- 8 mm, 6 kV (1.2/50 μ s) isolation, coil-contacts
- UL Listing (certain relay/socket combinations)
- Flux proof: RT II standard, (RT III option)
- 95 series sockets
- Coil EMC suppression
- Timer accessories 86 series

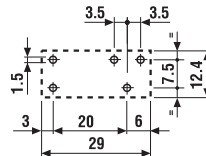
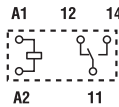
FOR UL RATINGS SEE:
"General technical information" page V

For outline drawing see page 10

40.31



- 3.5 mm contact pin pitch
- 1 Pole 10 A
- PCB or 95 series sockets



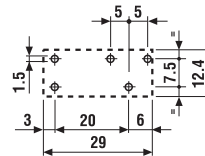
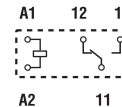
Copper side view

Pin length 5.3 mm for PCB or sockets

40.51



- 5 mm contact pin pitch
- 1 Pole 10 A
- PCB or 95 series sockets



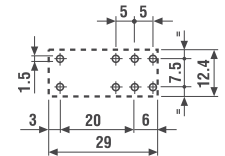
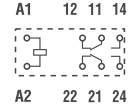
Copper side view

Pin length 5.3 mm for PCB or sockets

40.52



- 5 mm contact pin pitch
- 2 Pole 8 A
- PCB or 95 series sockets



Copper side view

Pin length 5.3 mm for PCB or sockets

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	2,500	2,500	2,000
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 _N) 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 _N	(0.8...1.1)U _N	(0.8...1.1)U _N
DC/sens. DC	(0.73...1.5)U _N /(0.73...1.5)U _N	(0.73...1.5)U _N /(0.73...1.5)U _N	(0.73...1.5)U _N /(0.73...1.5)U _N
Holding voltage AC/DC	0.8 U _N /0.4 U _N	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	0.2 U _N /0.1 U _N

Technical data

Mechanical life cycles	10 · 10 ⁶	10 · 10 ⁶	10 · 10 ⁶
Electrical life at rated load AC1 cycles	200 · 10 ³	200 · 10 ³	100 · 10 ³
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 μ s) kV	6 (8 mm)	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts V AC	1,000	1,000	1,000
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

Features

40.61 - 1 Pole 16 A (5 mm pin pitch)
40.xx.6 - Bistable versions of the 40.31, 40.51, 40.52 & 40.61 relays

PCB mount

- direct or via PCB socket
- 35 mm rail mount
- via screw and screwless sockets

- DC coils & AC coils
- Cadmium Free option available
- 8 mm, 6 kV (1.2/50 µs) isolation, coil-contacts
- UL Listing (certain 40.61 relay/socket combinations)
- Flux proof: RT II standard, (RT III option)
- 95 series sockets
- Coil EMC suppression
- Timer accessories 86 series

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	4,000
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 _N)	V AC (50/60 Hz)	6-12-24-48-60-110-120-230-240	5 - 6 - 12 - 24 - 48 - 110
	V DC	***See table	5 - 6 - 12 - 24 - 48 - 110
Rated power AC/DC/sens. DC VA (50 Hz)/W/W		1.2/0.65/0.5	1.0/1.0/-
Operating range	AC	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC/sens. DC	(0.73...1.5)U _N /(0.8...1.5)U _N	(0.8...1.1)U _N /-
Holding voltage AC/DC		0.8 U _N /0.4 U _N	-
Must drop-out voltage AC/DC		0.2 U _N /0.1 U _N	-

Technical data

Mechanical life cycles	10 · 10 ⁶	See relays
Electrical life at rated load AC1 cycles	100 · 10 ³	40.31
Operate/release time ms	7/3 - (12/4 sensitive)	40.51
Insulation between coil and contacts (1.2/50 µs) kV	6 (8 mm)	40.52
Dielectric strength between open contacts V AC	1,000	40.61
Ambient temperature range °C	-40...+85	Min. impulse duration
Environmental protection	RT II**	≥ 20 ms

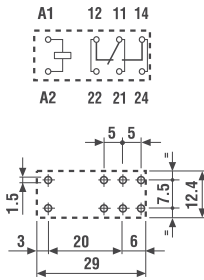
Approvals (according to type)



40.61



- 5 mm contact pin pitch
- 1 Pole 16 A
- PCB or 95 series sockets



Copper side view

Pin length 5.3 mm for PCB or sockets

40.xx.6



- Bistable (single coil) versions of 40.31/51/52/61
- PCB or 95 series sockets

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 AgSnO₂ material the maximum peak current is 120 A - 5 ms on normally open contact.

*** Nominal voltage (U_N):
5 - 6 - 7 - 9 - 12 - 14 - 18 - 21 - 24 - 28 - 36 - 48 - 60 - 90 - 110 - 125 V DC

Features

1 Pole relay range

- 40.31 - 1 Pole 12 A (3.5 mm pin pitch)
- 40.61 - 1 Pole 16 A (5 mm pin pitch)

- Pin length 3.5 mm for pcb mount
- Pin length 5.3 mm as Plug-in relay
- DC standard (0.65 W) or sensitive (0.5 W) coils available
- Cadmium Free contact material available
- 6 kV (1.2/50 µs) isolation coil-contacts
- 8 mm creepage and clearance distances between coil and contacts
- Meets EN 60335-1 glow wire requirements
- Flux proof: RT II standard or wash tight RT III
- AC inductive load rating (related to AC15 utilisation category) 4 A 250 V approved according to EN 61810-1:2008 (Annex B tables B1, B2, B3)

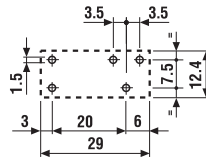
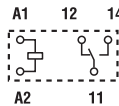
* mounted on sockets ≤ 10 A

For outline drawing see page 10

40.31



- 3.5 mm contact pin pitch
- 1 Pole 12 A (on PCB; 10 A with socket)
- PCB or 95 series sockets



Copper side view

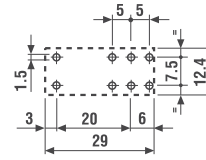
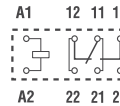
Pin length 3,5 mm for PCB only
Pin length 5.3 mm for PCB or sockets

See ordering information

40.61



- 5 mm contact pin pitch
- 1 Pole 16 A
- PCB or 95 series sockets



Copper side view

Pin length 3,5 mm for PCB only
Pin length 5.3 mm for PCB or sockets

See ordering information

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	3,000	4,000
Rated load AC15 (230 V AC) VA	1,000	1,000
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

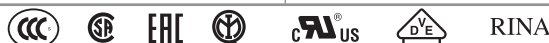
Coil specification

Nominal voltage (U _N)	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 _N /(0.73...1.5)U _N	(0.73...1.5)U _N /(0.8...1.5)U _N
Holding voltage	DC	0.4 U _N	0.4 U _N
Must drop-out voltage	DC	0.1 U _N	0.1 U _N

Technical data

Mechanical life	cycles	10 · 10 ⁶	10 · 10 ⁶
Electrical life at rated load AC1	cycles	200 · 10 ³	100 · 10 ³
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	1,000	1,000
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.

Features

A

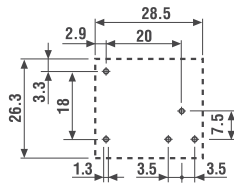
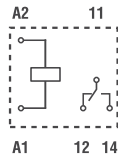
**1 Pole relay range
- 1 Pole 10 A (Flat pack)**

- DC coils
- Cadmium Free option available
- 8 mm, 6 kV (1.2/50 µs) isolation, coil-contacts

40.11



- 1 Pole 10 A
- Flat pack
- PCB mount



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	2,500
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 _N)	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 _N
Holding voltage	AC/DC	—/0.4 U _N
Must drop-out voltage	AC/DC	—/0.1 U _N
Technical data		
Mechanical life	cycles	20 · 10 ⁶
Electrical life at rated load AC1	cycles	200 · 10 ³
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	1,000
Ambient temperature range	°C	−40...+70
Environmental protection		RT I
Approvals (according to type)		





Ordering information

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

4	0	.	5	2	.	8	.	2	3	0	.	0	0	0	0
Series		Type		No. of poles		Coil version		Coil voltage		A: Contact material	B: Contact circuit	D: Special versions			
40 = 40 series		0 = PCB - 3.5 mm pinning, flat 5 = PCB/Plug-in - 5 mm pinning		2 = 2 pole		8 = AC (50/60 Hz)		See coil specifications		See table below	0 = CO (nPDT) 3 = NO (nPST)	0 = Standard 1 = Wash tight (RT III) 3 = High temperature (+ 125 °C) wash tight			
												C: Options			
												0 = Pins length 5.3 mm (Plug-in relays) 2 = Pins 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	2 (AgCdO) - 4 (AgSnO ₂)	0	0	0
	40.31*	Standard DC/sensitive DC	1 (AgNi)	0 - 3	2	0 - 1
	40.61*	Standard DC/sensitive DC	1 (AgNi) - 2 (AgCdO)	0 - 3	2	0 - 1
PCB/Plug-in relay, pin length 5.3 mm	40.31*/51	AC/sensitive DC	0 (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	0 - 3	0	0 - 1
	40.31*/51	Standard DC	0 (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	0 - 3	0	0 - 1 - 3
	40.52	AC/sensitive DC	0 (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	0 - 3	0	0 - 1
	40.52	Standard DC	0 (AgNi) - 2 (AgCdO) - 5 (AgNi+Au)	0 - 3	0	0 - 1 - 3
	40.61*	AC/sensitive DC	0 (AgCdO) - 4 (AgSnO ₂)	0 - 3	0	0 - 1
	40.61*	Standard DC	0 (AgCdO) - 4 (AgSnO ₂)	0 - 3	0	0 - 1 - 3
	40.31/51/52	Bistable	0 (AgNi)	0	0	0
	40.61	Bistable	0 (AgCdO)	0	0	0

40.31 1 pole 10 A  3.5 mm pin pitch For socket** or pcb mount pin length 5.3 mm	40.31 New 1 pole 12 A  3.5 mm pin pitch For socket** or pcb mount pin length 5.3 mm	40.61 1 pole 16 A  5 mm pin pitch For socket or pcb mount pin length 5.3 mm	40.61 New 1 pole 16 A  5 mm pin pitch For socket or pcb mount pin length 5.3 mm
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* 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.

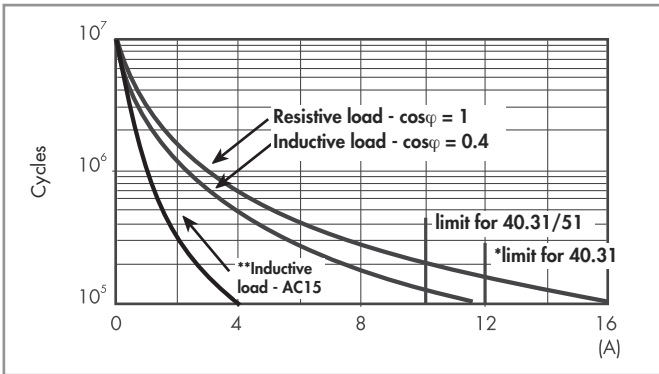
Technical data

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)	
Overtoltage category		III		III	
Rated impulse voltage	kV (1.2/50 µs)	6		6	
Dielectric strength	V AC	4,000		4,000	
Insulation between adjacent contacts					
Type of insulation		—		Basic	
Overtoltage category		—		II	
Rated impulse voltage	kV (1.2/50 µs)	—		2.5	
Dielectric strength	V AC	—		2,000	
Insulation between open contacts					
Type of disconnection		Micro-disconnection		Micro-disconnection	
Dielectric strength	V AC/kV (1.2/50 µs)	1,000/1.5		1,000/1.5	
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			

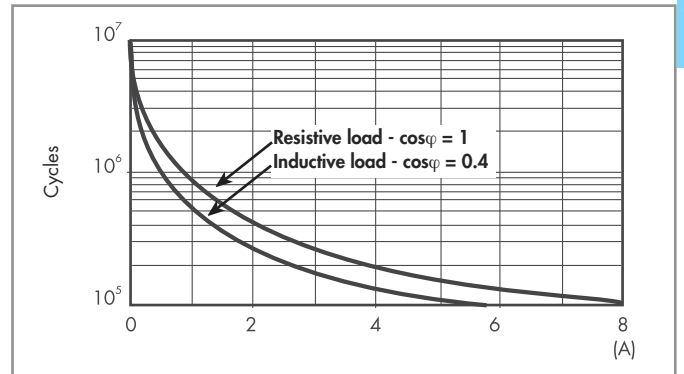
Contact specification

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

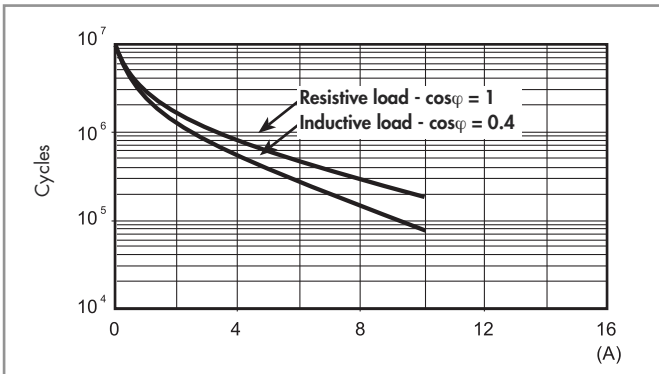


* limit for 40.31, see page 3
** Inductive load - AC15 for 40.31/61, see page 3

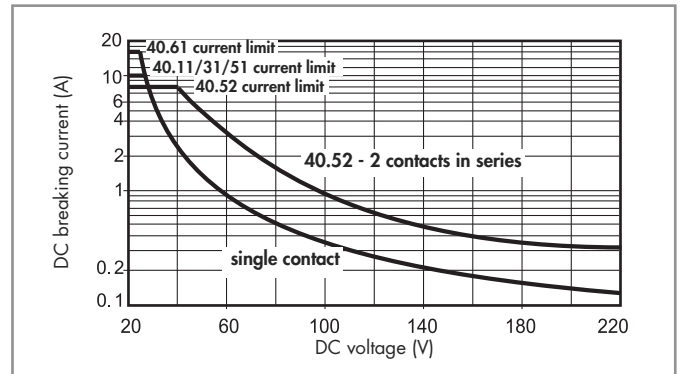
F 40 - Electrical life (AC) v contact current
Type 40.52



F 40 - Electrical life (AC) v contact current
Type 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

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

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		
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	1,200	23
36	9.036	26.3	54	2,000	18
48	9.048	35	72	3,500	14
60	9.060	43.8	90	5,500	11
90	9.090	65.7	135	12,500	7.2
110	9.110	80.3	165	18,000	6.2
125	9.125	91.2	188	23,500	5.3

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

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		
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	1,150	21
28	7.028	20.5	42	1,600	17.5
36	7.036	26.3	54	2,600	13.8
48	7.048	35	72	4,800	10
60	7.060	43.8	90	7,200	8.4
90	7.090	65.7	135	16,200	5.6
110	7.110	80.3	165	23,500	4.7
125	7.125	91.2	188	32,000	3.9

* $U_{min} = 0.8 U_N$ for 40.61

DC coil data - 0.5 W sensitive (type 40.11)

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		
6	7.006	4.4	10.5	75	80
12	7.012	8.8	21	300	40
24	7.024	17.5	42	1,200	20
48	7.048	35	84	4,600	10.4
60	7.060	43.8	105	7,200	8.3

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

Nominal voltage U_N V	Coil code	Operating range		Resistance R Ω	Rated coil consumption I at U_N (50Hz) mA
		U_{min} V	U_{max} V		
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	1,350	21
60	8.060	48	66	2,100	16.8
110	8.110	88	121	6,900	9.4
120	8.120	96	132	9,000	8.4
230	8.230	184	253	28,000	5
240	8.240	192	264	31,500	4.1

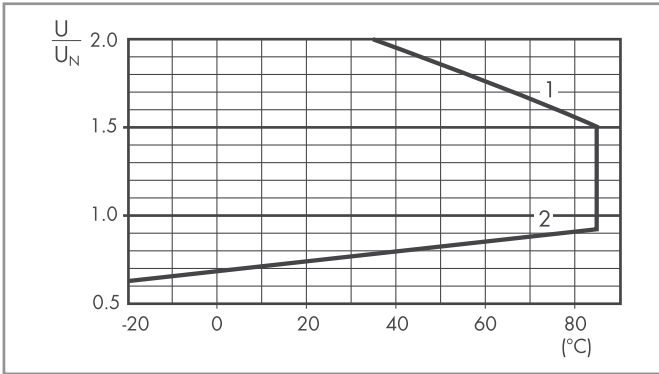
AC/DC coil data - bistable (types 40.31/51/52/61)

Nominal voltage U_N V	Coil code	Operating range		Resistance R Ω	Rated coil consumption I at U_N mA	DC: Release resistance** R_{DC} Ω
		U_{min} V	U_{max} V			
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	2,100	21	3,600
110	6.110	88	121	11,000	10	16,500

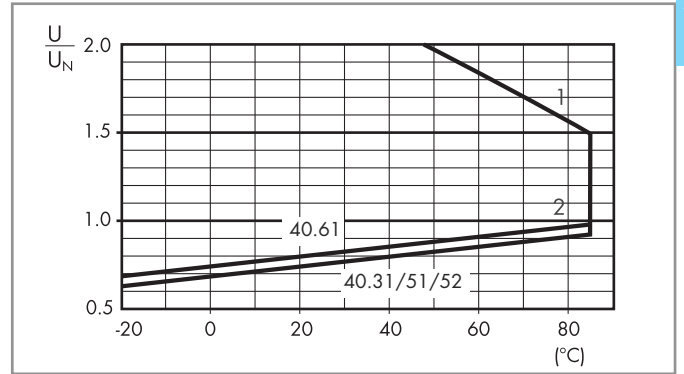
** R_{DC} = Resistance in DC, $R_{AC} = 1.3 \times R_{DC}$ 1W

Coil specifications

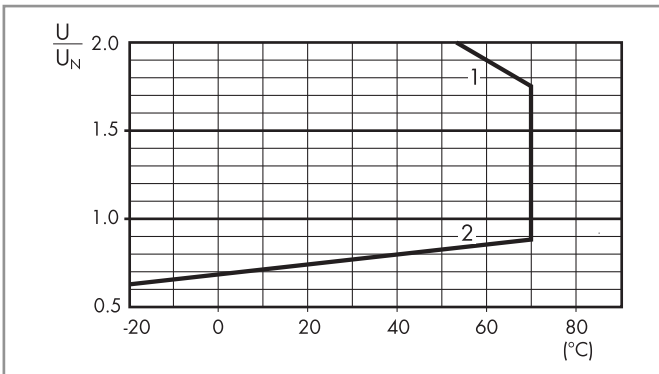
R 40 - DC coil operating range v ambient temperature
Standard coil



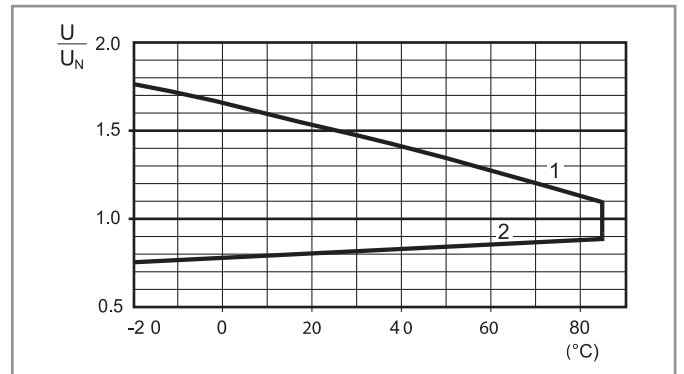
R 40 - DC coil operating range v ambient temperature
Sensitive coil, types 40.31/51/52/61



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



R 40 - AC coil operating range v ambient temperature

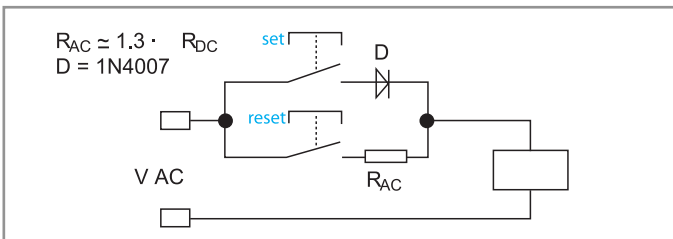


1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

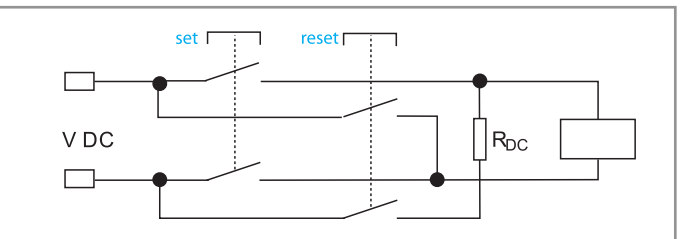
1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

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.

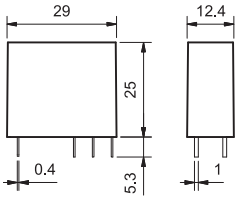
On momentary closure of the RESET switch the relay is demagnetised through limiting resistor (R_{DC}) and the contacts return to the reset position.

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.

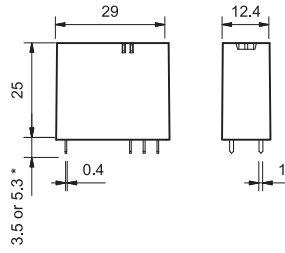
Outline drawings

A

Type 40.31/51/52/61

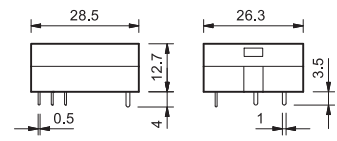


Type 40.31/61



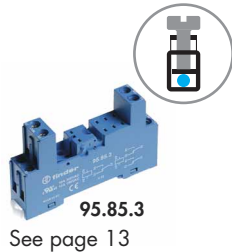
* (3.5 or 5.3) mm see ordering code

Type 40.11

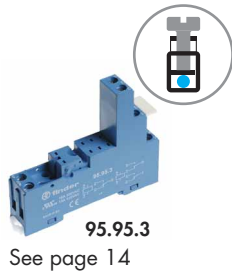




Module	Socket	Relay	Description	Mounting	Accessories
99.02	95.03	40.31	Screw terminal (Box clamp) socket - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Timer modules - Plastic retaining and release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



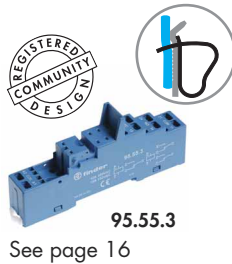
Module	Socket	Relay	Description	Mounting	Accessories
99.80	95.83.3	40.31	Screw terminal (Box clamp) socket 95.83.3 wiring: - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Plastic retaining and release clip
	95.85.3	40.51			
		40.52			
		40.61			



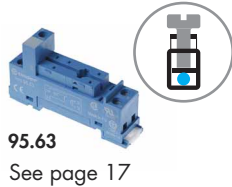
Module	Socket	Relay	Description	Mounting	Accessories
99.80	95.93.3	40.31	Screw terminal (Box clamp) socket - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Plastic retaining and release clip
	95.95.3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



Module	Socket	Relay	Description	Mounting	Accessories
99.02	95.55	40.51	Screwless terminal socket - For fast cable connections - 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
		40.52			
		40.61			



Module	Socket	Relay	Description	Mounting	Accessories
99.80	95.55.3	40.51	Screwless terminal socket For fast cable connections - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Plastic retaining and release clip
		40.52			
		40.61			



Module	Socket	Relay	Description	Mounting	Accessories
99.01	95.63	40.31	Screw terminal (Box clamp) socket - Top terminals - Contacts - Bottom terminals - Coil	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Metal retaining clip



Module	Socket	Relay	Description	Mounting	Accessories
—	95.65	40.51	Screw terminal (Box clamp) socket	Panel or 35 mm rail (EN 60715) mount	- Metal retaining clip
		40.52			
		40.61			



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

A



95.05

Approvals (according to type):



cUL US Certain relay/socket combinations

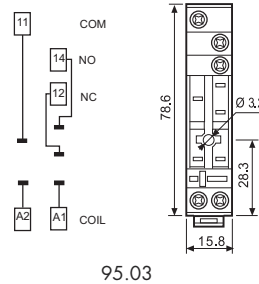
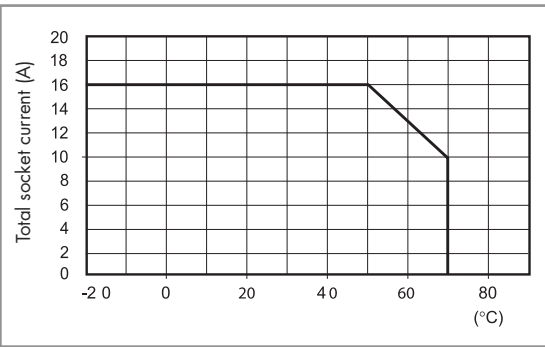


095.01

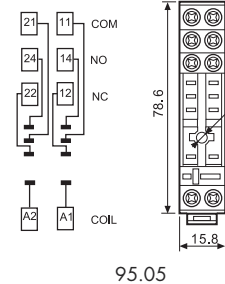


060.72

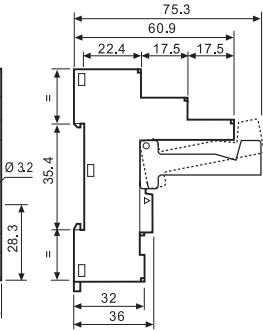
L 95 - Total socket current vs ambient temperature (95.05)



95.03



95.05

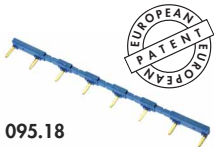


Screw terminal (Box clamp) socket panel or 35 mm rail mount	95.03 (blue)	95.03.0 (black)	95.05 (blue)	95.05.0 (black)
For relay type	40.31		40.51, 40.52, 40.61	

Accessories				
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
Identification tag	095.00.4			
Modules (see table below)	99.02			
Timer modules (see table below)	86.30			
Sheet of marker tags for retaining and release clip 095.01 plastic, 72 tags, 6x12 mm	060.72			

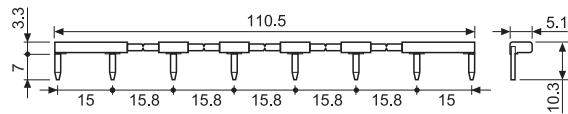
Technical data			
Rated values	10 A - 250 V *		
Dielectric strength	6 kV (1.2/50 μs) between coil and contacts		
Protection category	IP 20		
Ambient temperature	°C -40...+70 (see diagram L95)		
⊕ Screw torque	Nm	0.5	
Wire strip length	mm	8	
Max. wire size for 95.03 and 95.05 sockets	solid wire		
	mm ²	1x6 / 2x2.5	1x4 / 2x2.5
	AWG	1x10 / 2x14	1x12 / 2x14

* 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.



095.18

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



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



86.30

Approvals (according to type):



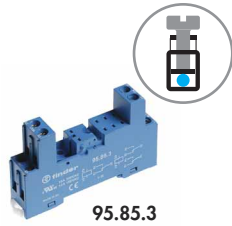
99.02

Approvals (according to type):



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

99.02 coil indication and EMC suppression modules for 95.03 and 95.05 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

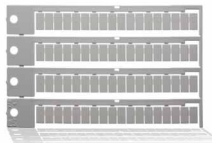


95.85.3

Approvals (according to type):



095.91.3



060.72

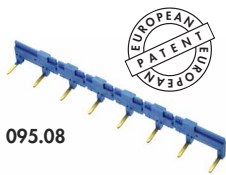
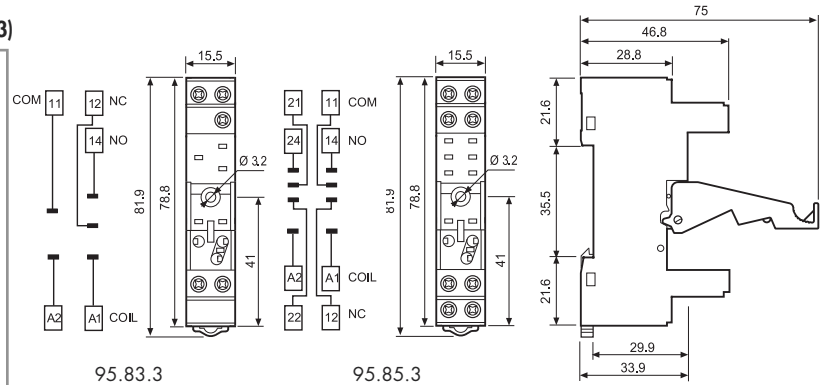
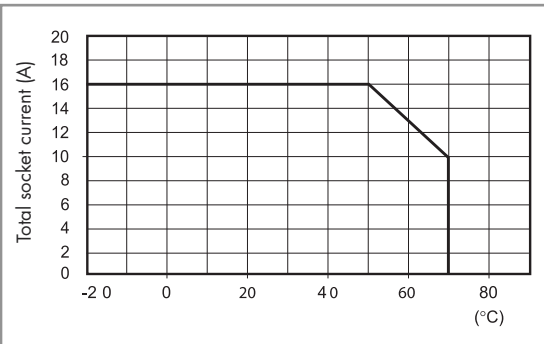
Screw terminal (Box clamp) socket panel or 35 mm rail mount	95.83.3 (blue)	95.83.30 (black)	95.85.3 (blue)	95.85.30 (black)
For relay type	40.31		40.51, 40.52, 40.61	

Accessories				
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	095.80.3			
Modules (see table below)	99.80			
Sheet of marker tags for retaining and release clip 095.91.3 plastic, 72 tags, 6x12 mm	060.72			

Technical data				
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	
	m ²	1x6 / 2x2.5	1x4 / 2x2.5	
	AWG	1x10 / 2x14	1x12 / 2x14	

* 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.

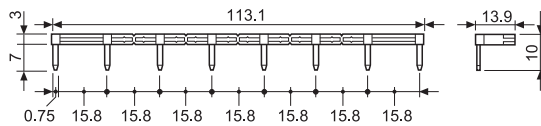
L 95 - Total socket current vs ambient temperature (95.85.3)



095.08



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



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



99.80

Approvals (according to type):

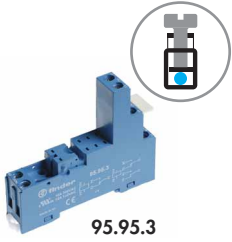


* Modules in Black housing are available on request.

Green LED is standard. Red LED available on request.

95 Series - Sockets and accessories for 40 series relays

A

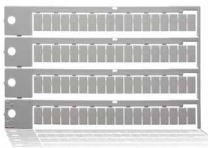


95.95.3

Approvals
(according to type):



095.91.3



060.72

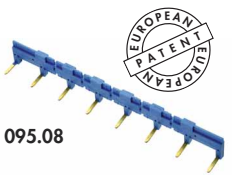
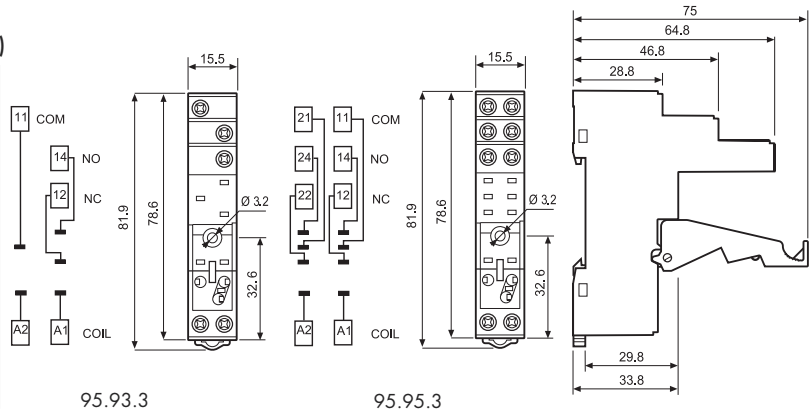
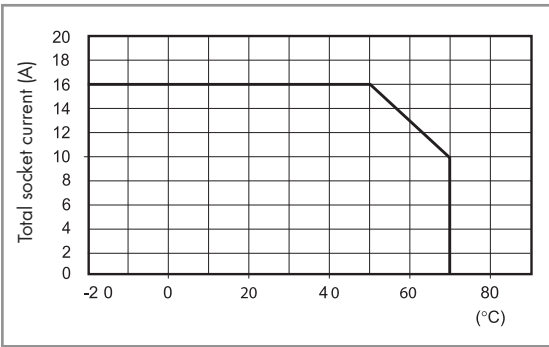
Screw (Box clamp) terminal socket panel or 35 mm rail mount	95.93.3 (blue)	95.93.30 (black)	95.95.3 (blue)	95.95.30 (black)
For relay type	40.31		40.51, 40.52, 40.61	

Accessories				
Metal retaining clip	095.71			
Plastic retaining and release clip	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	095.80.3			
Modules (see table below)	99.80			
Sheet of marker tags for retaining and release clip 095.91.3 plastic, 72 tags, 6x12 mm	060.72			

Technical data			
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
	m ²	1x6 / 2x2.5	1x4 / 2x2.5
	AWG	1x10 / 2x14	1x12 / 2x14

* 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.

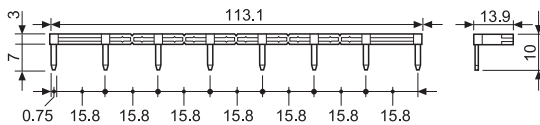
L 95 - Total socket current vs ambient temperature (95.95.3)



095.08



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



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 95.93.3 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



95.55

Approvals (according to type):

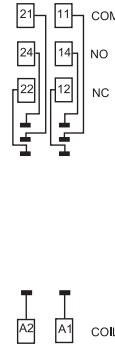
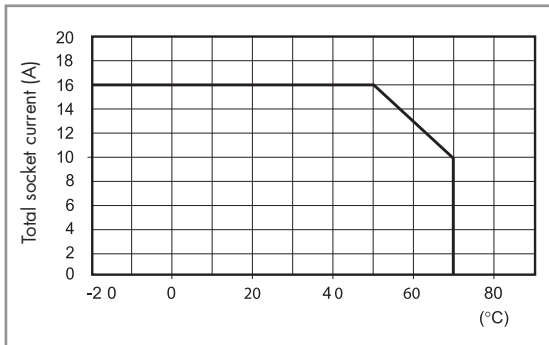


095.91.3



060.72

L 95 - Total socket current vs ambient temperature



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	
Accessories		
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 retaining and release clip 095.91.3 plastic, 72 tags, 6x12 mm	060.72	
Technical data		
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 ² 2x(0.2...1.5)	2x(0.2...1.5)
	AWG 2x(24...18)	2x(24...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.



86.30

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

Approvals (according to type):



99.02

Approvals (according to type):



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

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

A



95.55.3

Approvals (according to type):

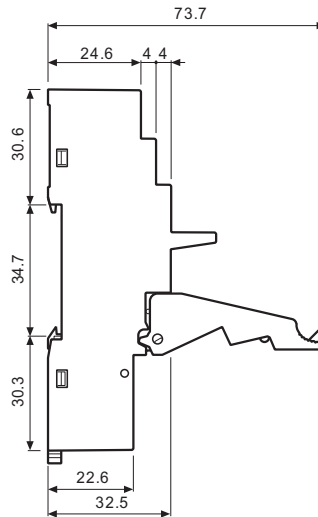
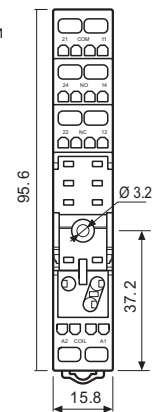
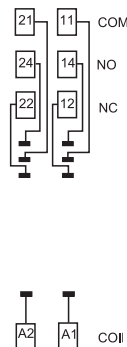
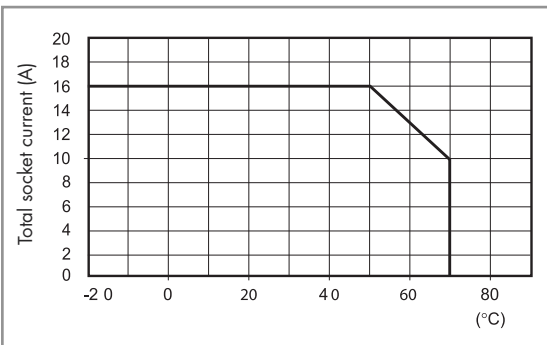


095.91.3



060.72

L 95 - Total socket current vs ambient temperature



99.80

Approvals (according to type):



* Modules in Black housing are available on request.

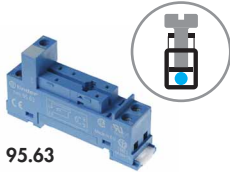
Green LED is standard. Red LED available on request.

99.80 coil indication and EMC suppression modules for 95.55.3 socket

		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

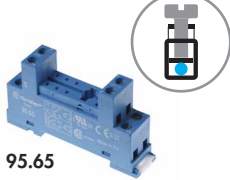
Screwless terminal socket panel or 35 mm rail mount	95.55.3 (blue)	95.55.30 (black)
For relay type	40.51, 40.52, 40.61	
Accessories		
Metal retaining clip	095.71	
Plastic retaining and release clip (supplied with socket - packaging code SPA)	095.91.3	
Modules (see table below)	99.80	
Sheet of marker tags for retaining and release clip 095.91.3 plastic, 72 tags, 6x12 mm	060.72	
Technical data		
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 95.55.3 socket	solid wire	stranded wire
	mm ²	2x(0.2...1.5)
	AWG	2x(24...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.



95.63

Approvals (according to type):



95.65

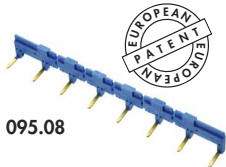
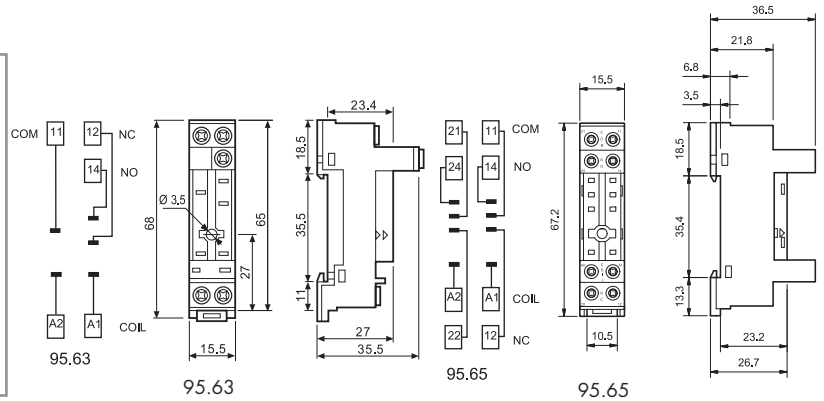
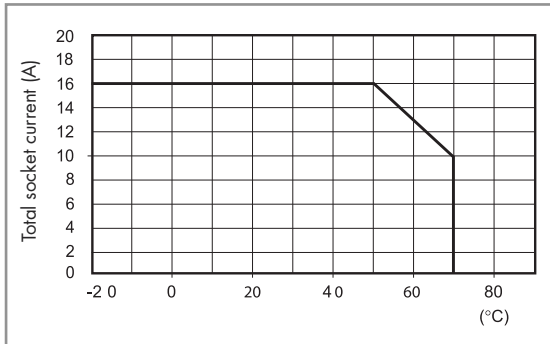
Approvals (according to type):



Screw terminal (Box clamp) socket panel or 35 mm rail mount	95.63 (blue)	95.65 (blue)
For relay type	40.31	40.51, 40.52, 40.61
Accessories		
Metal retaining clip	095.71	
8-way jumper link	095.08	095.08
Modules (see table below)	99.01	—
Technical data		
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
	m ²	1x6 / 2x2.5
	AWG	1x10 / 2x14

* 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.

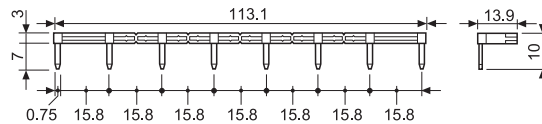
L 95 - Total socket current vs ambient temperature



095.08



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



99.01

Approvals (according to type):



99.01 coil indication and EMC suppression modules for type 95.63 socket

		Blue*
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

* Modules in Black housing are available on request.

Green LED is standard. Red LED available on request.

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