

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)

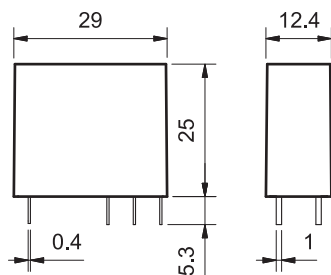
PCB mount

- 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

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...1.75) U_N	(0.73...1.5) U_N /(0.73...1.75) U_N	(0.73...1.5) U_N /(0.73...1.75) 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 AC/DC cycles	10 · 10 ⁶ /20 · 10 ⁶	10 · 10 ⁶ /20 · 10 ⁶	10 · 10 ⁶ /20 · 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 .

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

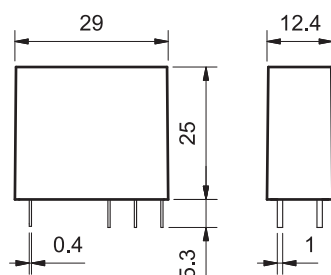
PCB mount

- 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 μ s) 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



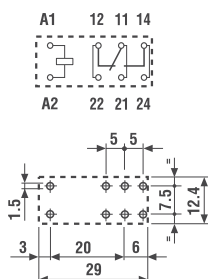
FOR UL RATINGS SEE:
 "General technical information" page V



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



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



Copper side view

Bistable version (1 coil) types:

40.31.6...

40.51.6...

40.52.6...

40.61.6...

For wiring diagrams see
 page 8

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
	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_N
	DC/sens. DC	(0.73...1.5) U_N /(0.8...1.5) 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 AC/DC	cycles	10 · 10 ⁶ / 20 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³
Operate/release time	ms	7/3 - (12/4 sensitive)
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (8 mm)
Dielectric strength between open contacts V AC		1,000
Ambient temperature range	°C	-40...+85
Environmental protection		RT II**

See relays

40.31

40.51

40.52

40.61

* 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

See relays

40.31

40.51

40.52

40.61

Min. impulse duration
 ≥ 20 ms

Approvals (according to type)



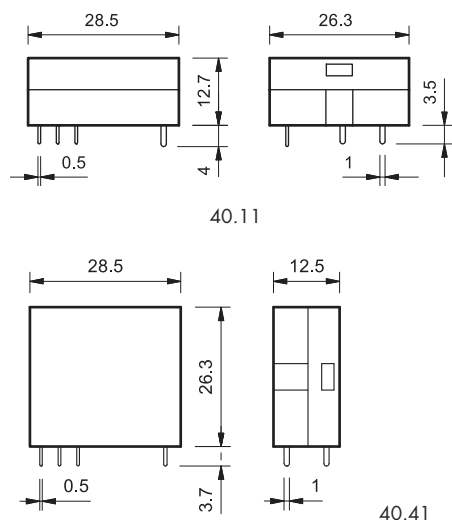
Features

1 Pole relay range

- 40.11 - 1 Pole 10 A (Flat pack)
40.11-2016 - 1 Pole 16 A (Flat pack)
40.41 - 1 Pole 10 A (Vertical)

PCB mount

- **direct or via PCB socket (40.41 version)**
- DC coils
- Cadmium Free option available
- 8 mm, 6 kV (1.2/50 μ s) isolation, coil-contacts
- 40.41 - NO version available



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

Contact specification

Contact configuration	1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current A	10/20	16/30	10/20
Rated voltage/Maximum switching voltage V AC	250/400	250/400	250/400
Rated load AC1 VA	2,500	4,000	2,500
Rated load AC15 (230 V AC) VA	500	750	500
Single phase motor rating (230 V AC) kW	0.37	0.55	0.37
Breaking capacity DC1: 30/110/220 V A	10/0.3/0.12	16/0.3/0.12	10/0.3/0.12
Minimum switching load mW (V/mA)	300 (5/5)	500 (10/5)	300 (5/5)
Standard contact material	AgCdO	AgCdO	AgCdO

Coil specification

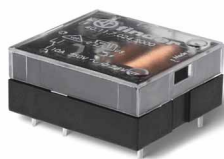
Nominal voltage (U _N)	V AC (50/60 Hz)	—	—	—
	V DC	6 - 12 - 24 - 48 - 60	6 - 12 - 24 - 48	6 - 12 - 24 - 48 - 60
Rated power AC/DC/sens. DC	VA (50 Hz)/W/W	—/—/0.5	—/—/0.5	—/—/0.5
Operating range	AC	—	—	—
	DC/sens. DC	—/[0.73...1.75]U _N	—/[0.73...1.5]U _N	—/[0.73...1.75]U _N
Holding voltage	AC/DC	—/0.4 U _N	—/0.4 U _N	—/0.4 U _N
Must drop-out voltage	AC/DC	—/0.1 U _N	—/0.1 U _N	—/0.1 U _N

Technical data

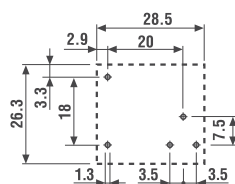
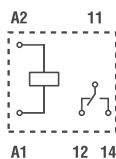
Mechanical life AC/DC	cycles	$-/20 \cdot 10^6$	$-/20 \cdot 10^6$	$-/20 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$	$50 \cdot 10^3$	$200 \cdot 10^3$
Operate/release time	ms	12/4	12/4	12/4
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (8 mm)	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts V AC		1,000	1,000	1,000
Ambient temperature range	°C	-40...+70	-40...+70	-40...+70
Environmental protection		RT I	RT I	RT I

Approvals (according to type)

40.11

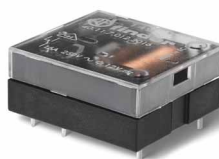


- 1 Pole 10 A
- Flat pack
- PCB mount

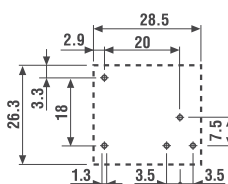
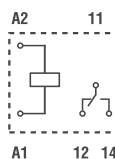


Copper side view

40.11-2016



- 1 Pole 16 A
- Flat pack
- PCB mount

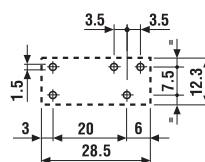
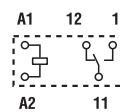


Copper side view

40.41



- 1 Pole 10 A
- Vertical
- PCB or 95 series socket



Copper side view

Ordering information

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

	4	0	.	5	.	2	.	8	.	2	3	0	.	0	A	0	B	0	C	0	D	0
Series													A: Contact material		B: Contact circuit		C: Options		D: Special versions			
Type	1 = PCB - 3.5 mm pinning, flat 3 = PCB - 3.5 mm pinning 4 = PCB - 3.5 mm pinning 5 = PCB - 5 mm pinning 6 = PCB - 5 mm pinning												0 = Standard AgNi for 40.31/51/52, AgCdO for 40.61 2 = AgCdO (standard for 40.11/41) 4 = AgSnO ₂ 5 = AgNi + Au (5 µm)		0 = CO (nPDT) 3 = NO (nPST)		0 = Standard 1 = Wash tight (RT III) 3 = High temperature (+ 125 °C) wash tight					
No. of poles	1 = 1 pole for: 40.11, 10 A/16 A 40.31, 10 A 40.41, 10 A 40.51, 10 A 40.61, 16 A 2 = 2 pole for: 40.52, 8 A																					
Coil version	6 = AC/DC bistable 7 = Sensitive DC 8 = AC (50/60 Hz) 9 = DC																					
Coil voltage	See coil specifications																					

Selecting features and options: only combinations in the same row are possible.
Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
40.11	sensitive DC	2 - 4	0	0	0
40.11	sensitive DC	2 - 4	0	16	/
40.41	sensitive DC	0 - 2	0 - 3	0	0
40.31*/51	AC-sens. DC	0 - 2 - 5	0 - 3	0	0 - 1
40.31/51	DC	0 - 2 - 5	0 - 3	0	0 - 1 - 3
40.52	AC-sens. DC	0 - 2 - 5	0 - 3	0	0 - 1
40.52	DC	0 - 2 - 5	0 - 3	0	0 - 1 - 3
40.61*	AC-sens. DC	0 - 4	0 - 3	0	0 - 1
40.61	DC	0 - 4	0 - 3	0	0 - 1 - 3
40.31/51/52/61	bistable	0	0	0	0

* As the result of a new production line and increased production capacity, the design/specification of the sensitive DC version will be changed to align with current PCB relay versions 40.31.7.0xx.xx20 and 40.61.7.0xx.xx20. This changeover will occur during the first quarter in 2013 for the types mentioned below.
For full technical data refer to data sheet: PCB/Plug-in relays 12 - 16 A.

40.31 Obsolete 1 pole 10 A	40.31 New 1 pole 12 A	40.61 Obsolete 1 pole 16 A	40.61 New 1 pole 16 A
			
3.5 mm pin pitch For socket** or pcb mount pin length 5.3 mm		5 mm pin pitch For socket or pcb mount pin length 5.3 mm	
Code 40.31.7.012.0000 40.31.7.012.0001 40.31.7.012.0300 40.31.7.012.0301 40.31.7.024.0000 40.31.7.024.0001 40.31.7.024.0300 40.31.7.024.0301		Code 40.61.7.012.0000 40.61.7.012.0001 40.61.7.012.0300 40.61.7.012.0301 40.61.7.024.0000 40.61.7.024.0001 40.61.7.024.0300 40.61.7.024.0301	

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

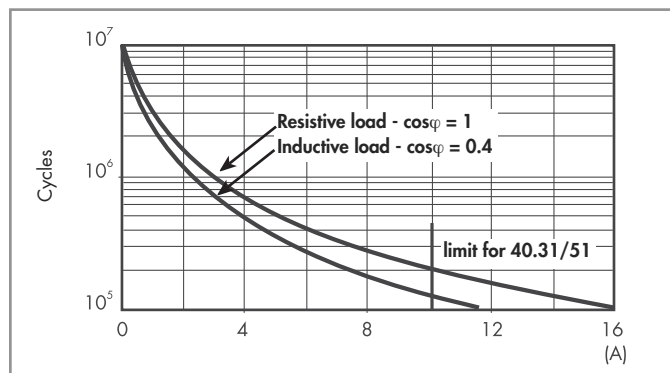
Technical data

Insulation according to EN 61810-1

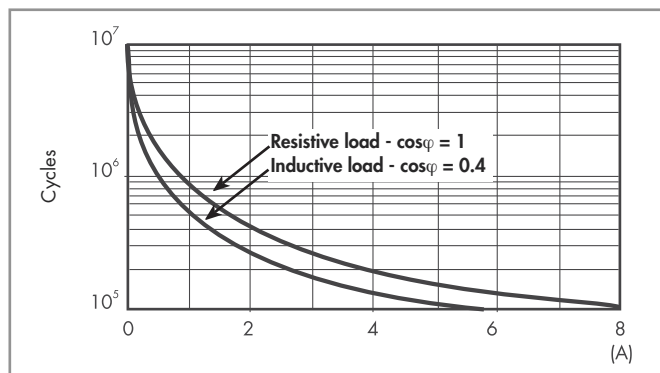
		1 pole		2 pole	
Nominal voltage of supply system	V AC	230/400		230/400	
Rated insulation voltage	V AC	250	400	250	400
Pollution degree		3	2	3	2
Insulation between coil and contact set					
Type of insulation		Reinforced (8 mm)		Reinforced (8 mm)	
Overvoltage category		III		III	
Rated impulse voltage	kV (1.2/50 μs)	6		6	
Dielectric strength	V AC	4,000		4,000	
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	—		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 (5...55)Hz: NO/NC	g	10/4 (1 changeover)		15/3 (2 changeover)	
Shock resistance	g	13			
Power lost to the environment	without contact current	W	0.6		
	with rated current	W	1.2 (40.11/31/41/51)		2 (40.61/52/40.11-2016)
Recommended distance between relays mounted on PCB	mm	≥ 5			

Contact specification

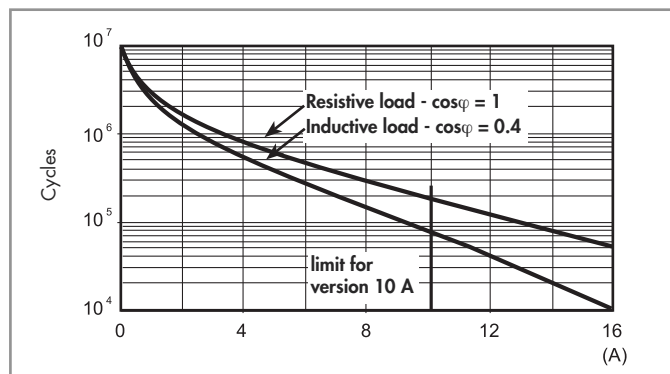
F 40 - Electrical life (AC) v contact current
Types 40.31/51/61



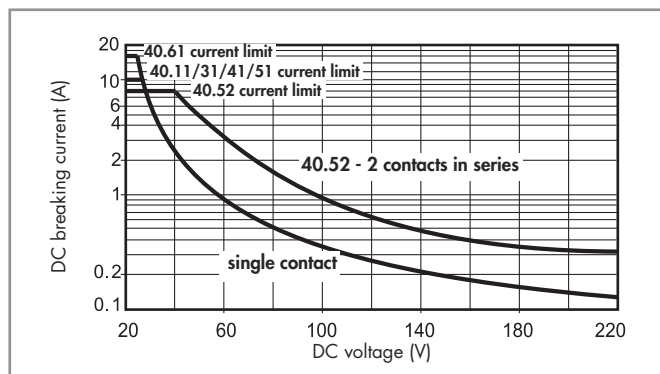
F 40 - Electrical life (AC) v contact current
Type 40.52



F 40 - Electrical life (AC) v contact current
Types 40.11/41



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	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N
		U_{min}	U_{max}		
V		V	V	Ω	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	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	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N
		U_{min}^*	U_{max}^{**}		
V		V	V	Ω	mA
5	7.005	3.7	8.8	50	100
6	7.006	4.4	10.5	75	80
7	7.007	5.1	12.2	100	70
9	7.009	6.6	15.8	160	56
12	7.012	8.8	21	288	42
14	7.014	10.2	24.5	400	35
18	7.018	13.2	31.5	650	27.7
21	7.021	15.4	36.9	900	23.4
24	7.024	17.5	42	1,150	21
28	7.028	20.5	49	1,600	17.5
36	7.036	26.3	63	2,600	13.8
48	7.048	35	84	4,800	10
60	7.060	43.8	105	7,200	8.4
90	7.090	65.7	157	16,200	5.6
110	7.110	80.3	192	23,500	4.7
125	7.125	91.2	219	32,000	3.9

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

** $U_{max} = 1.5 U_N$ for 40.61

DC coil data - 0.5 W sensitive (types 40.11/41)

Nominal voltage U_N	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N
		U_{min}	U_{max}^*		
V		V	V	Ω	mA
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

* $U_{max} = 1.5 U_N$ for 40.11-2016

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 (50Hz)
		U_{min}	U_{max}		
V		V	V	Ω	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	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

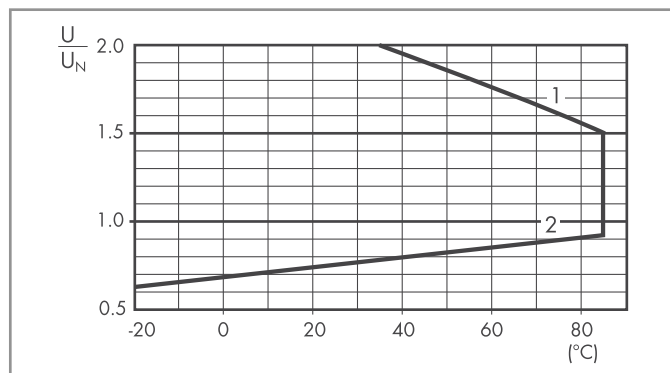
AC/DC coil data - bistable (types 40.31/51/52/61)

Nominal voltage U_N	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	Ω	mA	Ω
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

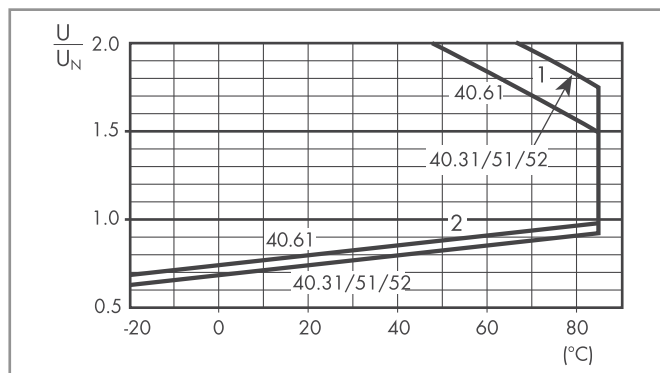
** R_{DC} = Resistance in DC, $R_{AC} = 1.3 \times R_{DC}$ 1W

Coil specifications

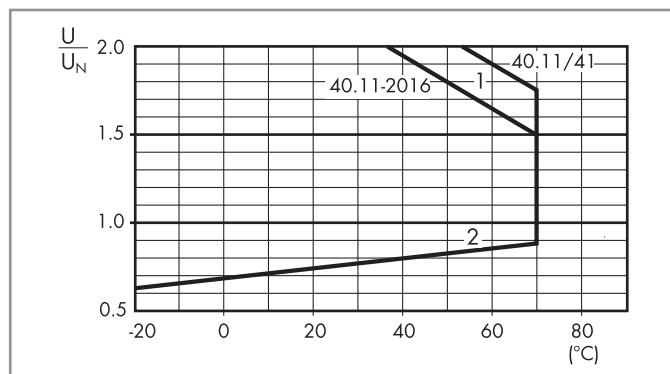
R 40 - DC coil operating range v ambient temperature
Standard coil



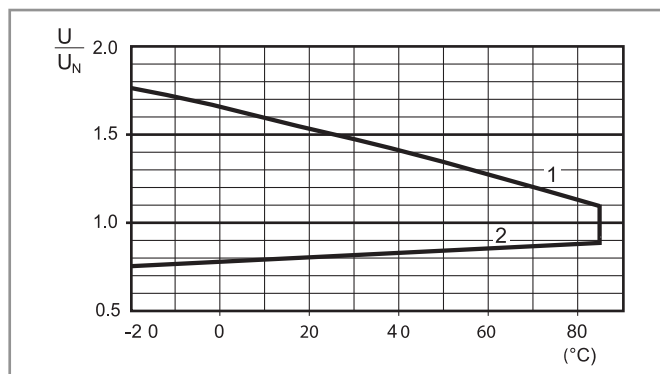
R 40 - DC coil operating range v ambient temperature
Sensitive coil, types 40.31/51/52/61



R 40 - DC coil operating range v ambient temperature
Sensitive coil, types 40.11/41



R 40 - AC coil operating range v ambient temperature

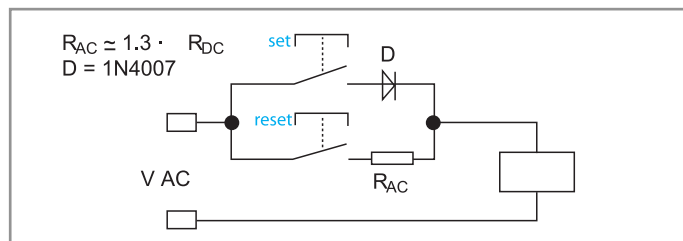


1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

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

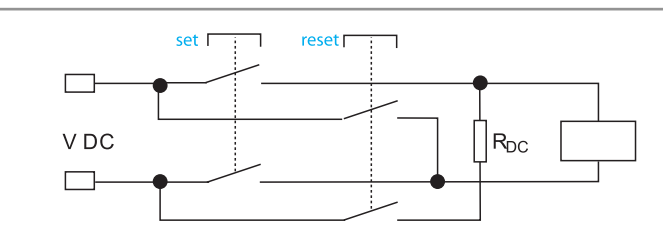


On momentary closure of the SET switch the relay is magnetised through the diode and the relay contacts transfer to the set position and remain in this position.

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

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.

DC Operation

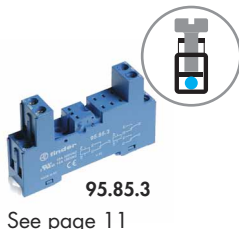


On momentary closure of the SET switch the relay is magnetised and the relay contacts transfer to the set position and remain in this position.

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



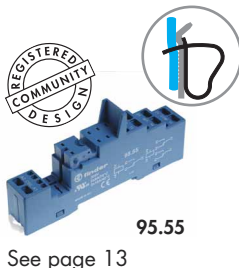
Module	Socket	Relay	Description	Mounting	Accessories
99.02	95.03	40.31	Screw terminal (Box clamp) socket	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Timer modules - Plastic retaining and release clip
		40.51	- Top terminals - Contacts		
		40.52	-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



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



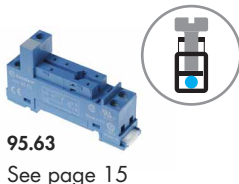
Module	Socket	Relay	Description	Mounting	Accessories
99.80	95.93.3	40.31	Screw terminal (Box clamp) socket	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Jumper link - Plastic retaining and release clip
		40.51	- Top terminals - Contacts		
		40.52	- Bottom terminals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



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



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



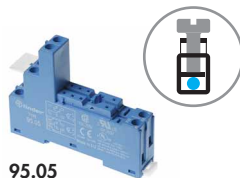
Module	Socket	Relay	Description	Mounting	Accessories
99.01	95.63	40.31	Screw terminal (Box clamp) socket	Panel or 35 mm rail (EN 60715) mount	- Coil indication and EMC suppression modules - Metal retaining clip
			- Top terminals - Contacts		
			- Bottom terminals - Coil		



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
		40.41			
—	95.15.2	40.51			
		40.52			
		40.61			



95.05

Approvals
(according to type):



cULUS Certain relay/socket combinations

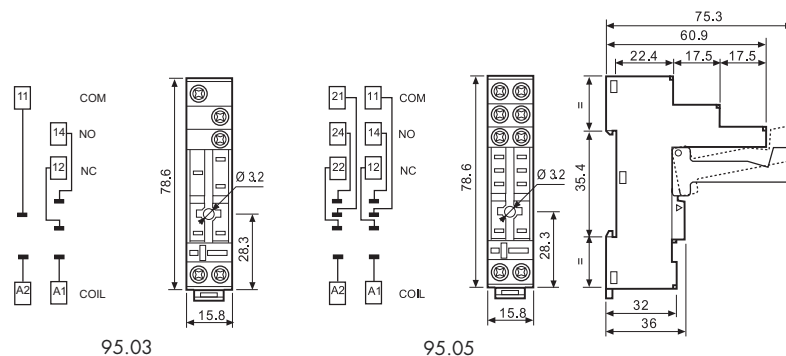
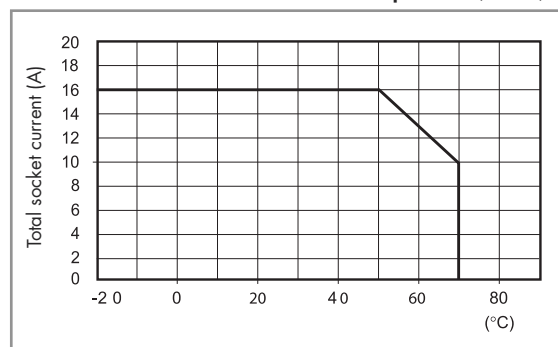


095.01



060.72

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



095.18

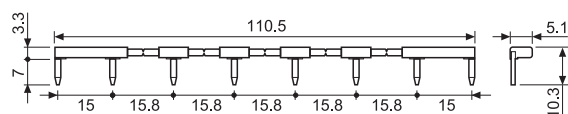
8-way jumper link for 95.03 and 95.05 sockets

Rated values

095.18 (blue)

095.18.0 (black)

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

Approvals (according to type):

86.30



99.02

Approvals
(according to type):

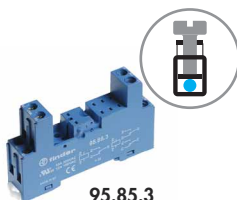


DC Modules with non-standard polarity (+A2) on request.

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 Series - Sockets and accessories for 40 series relays



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

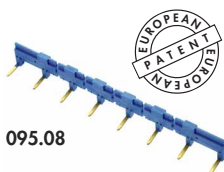
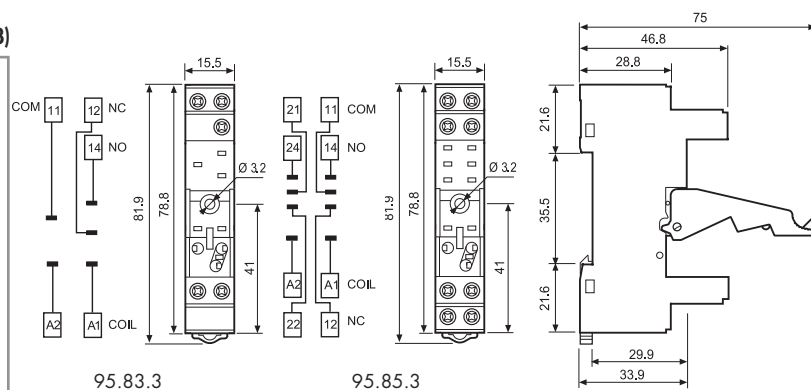
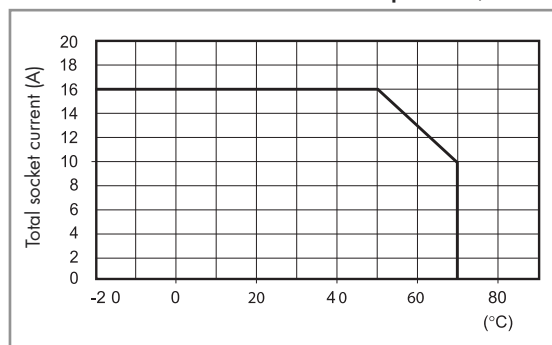
Metal retaining clip	095.71			
Plastic retaining and release clip (supplied with socket - packaging code SPA)	095.91.3	095.91.30	095.91.3	095.91.30
8-way jumper link	095.08	095.08.0	095.08	095.08.0
Identification tag	095.80.3			
Modules (see table below)	99.80			
Sheet of marker tags for retaining and 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
	m²	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.

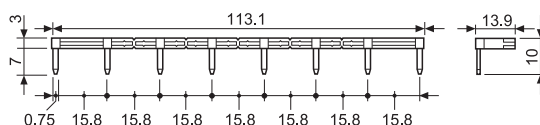
L 95 - Total socket current vs ambient temperature (95.85.3)



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

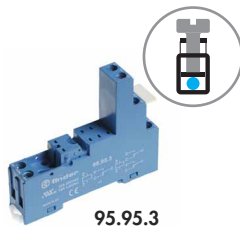
Approvals
(according to type):



* 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

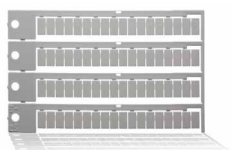


95.95.3

Approvals
(according to type):



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

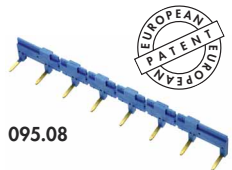
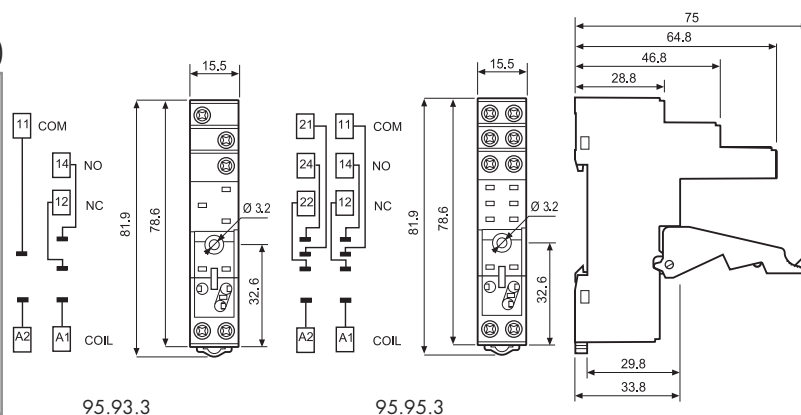
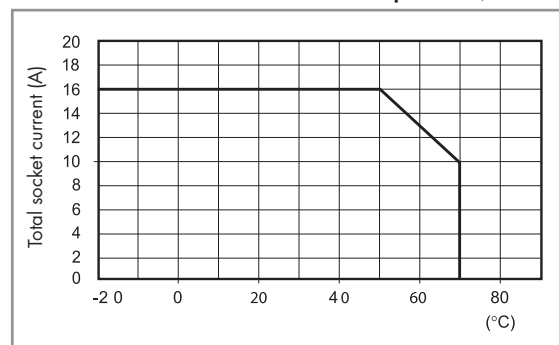
Metal retaining clip	095.71			
Plastic retaining and release clip	095.91.3	095.91.30	095.91.3	095.91.30
8-way jumper link	095.08	095.08.0	095.08	095.08.0
Identification tag	095.80.3			
Modules (see table below)	99.80			
Sheet of marker tags for retaining and release clip 095.91.3 plastic, 72 tags, 6x12 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
	m²	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.

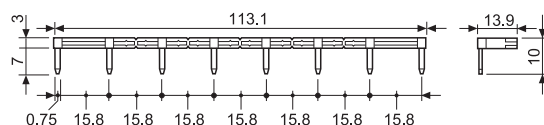
L 95 - Total socket current vs ambient temperature (95.95.3)



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	



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 95.93.3 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):

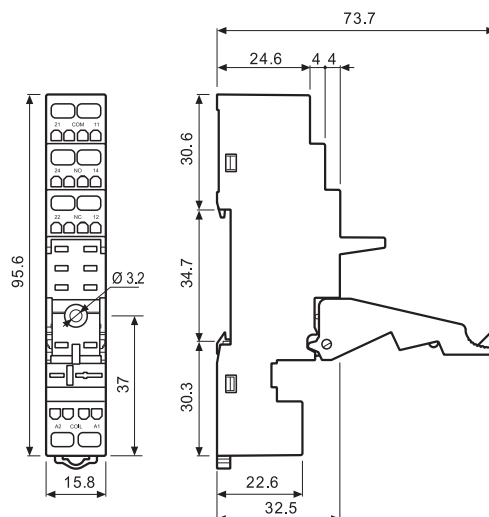
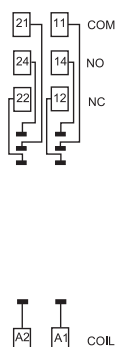
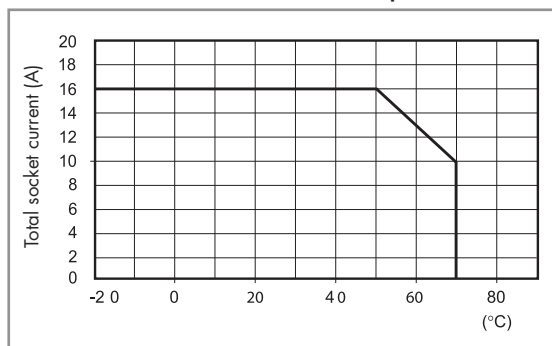


095.91.3



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	
		mm² 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.

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):



86.30

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

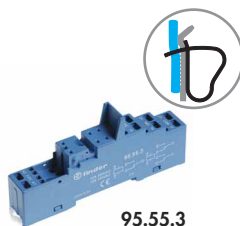


99.02

Approvals
(according to type):



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



95.55.3

Approvals
(according to type):

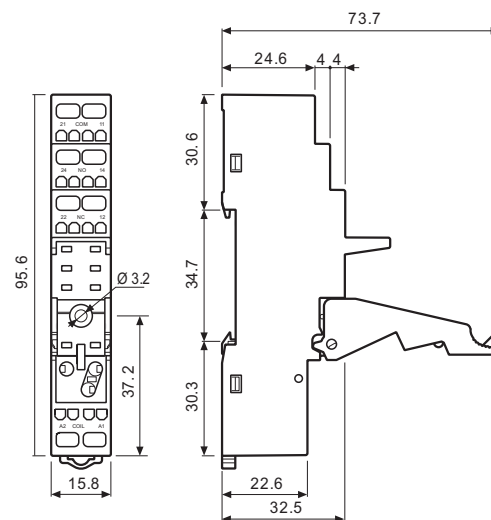
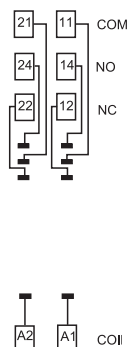
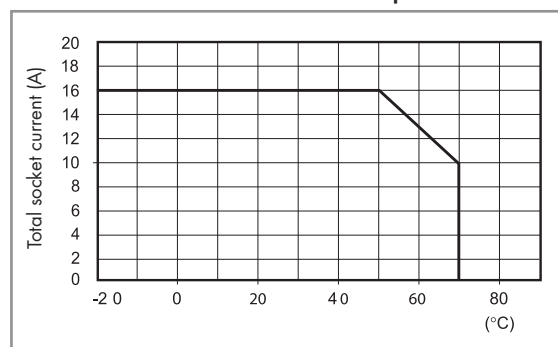


095.91.3



060.72

L 95 - Total socket current vs ambient temperature



99.80

Approvals
(according to type):

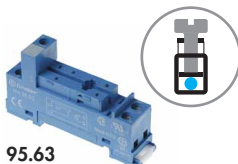


* Modules in Black housing are available on request.

Green LED is standard.
Red LED available on request.

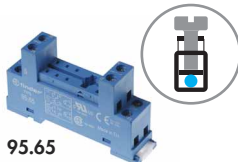
99.80 coil indication and EMC suppression modules for 95.55.3 socket

		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



95.63

Approvals
(according to type):



95.65

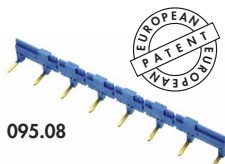
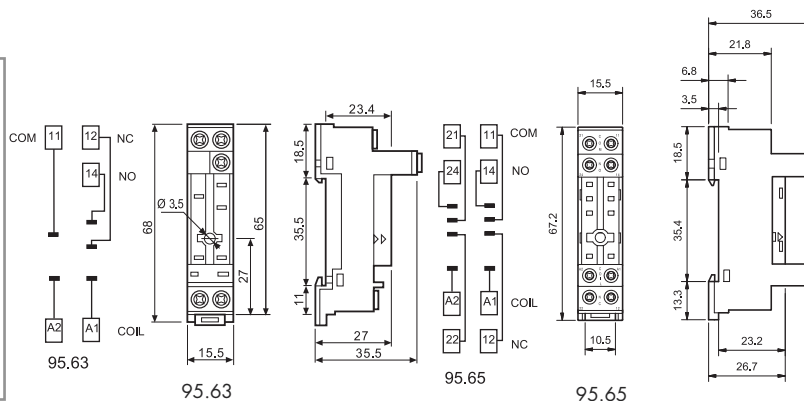
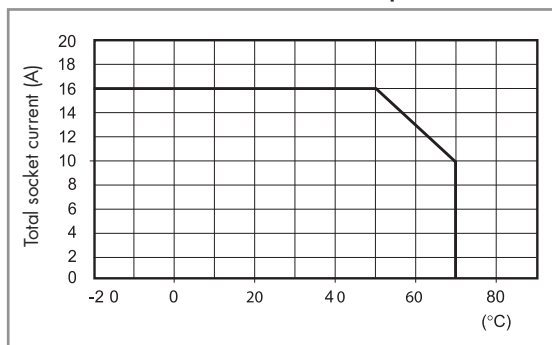
Approvals
(according to type):



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

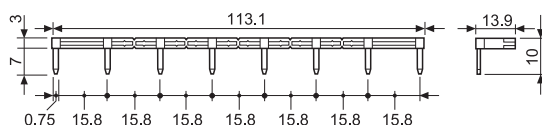
* For currents >10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).
With the relay 40.51 the change-over contact will be 21-12-14.

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.



95.13.2



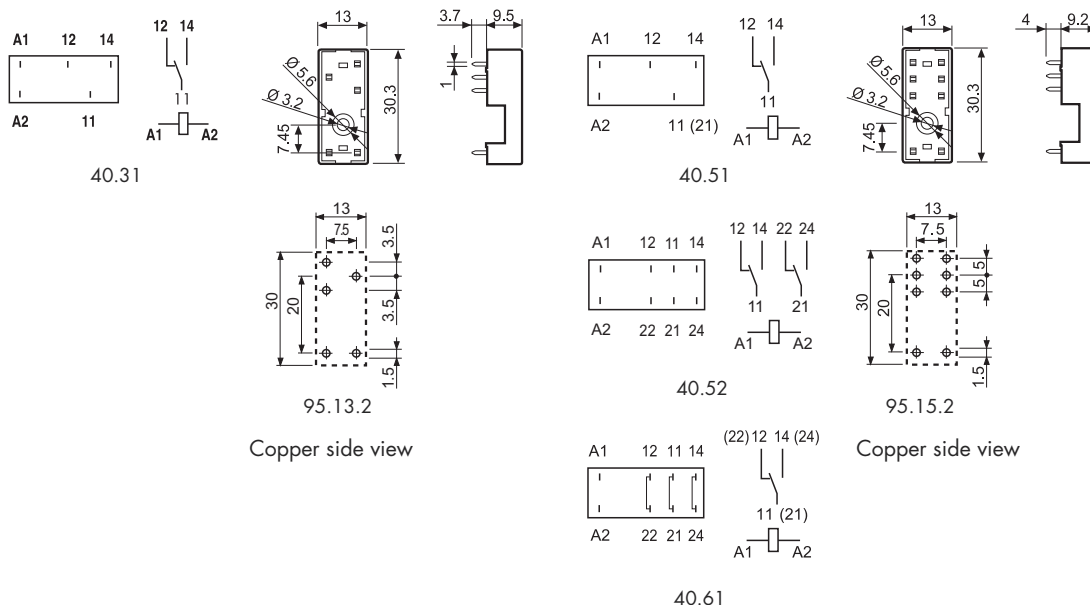
95.15.2

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, 40.41		40.51, 40.52, 40.61	
Accessories				
Metal retaining clip (supplied with socket - packaging code SMA)			095.51	
Plastic retaining clip			095.52	
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		

* 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:

9 5 . 0 5 S P A

A Standard packaging

SM Metal retaining clip
SP Plastic retaining clip

Without retaining clip