

## 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  $\mu$ 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:

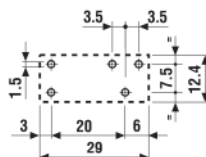
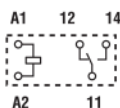
"General technical information" page V

For outline drawing see page 10

### 40.31



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



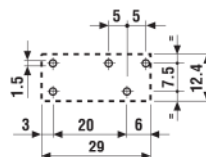
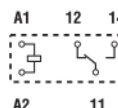
Copper side view

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



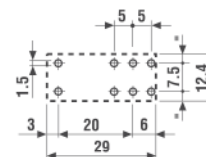
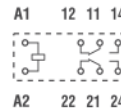
Copper side view

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

### Technical data

Mechanical life cycles	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>
Electrical life at rated load AC1 cycles	200 · 10 <sup>3</sup>	200 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time ms	7/3 - (12/4 sensitive)	7/3 - (12/4 sensitive)	7/3 - (12/4 sensitive)
Insulation between coil and contacts (1.2/50 $\mu$ 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 .

## 40 Series - Miniature PCB/Plug-in relays 8 - 10 - 12 - 16 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  $\mu$ 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

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

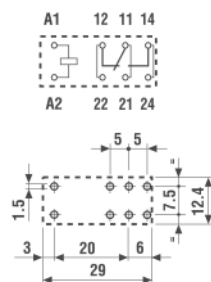
Mechanical life	cycles	10 · 10 <sup>6</sup>	See relays
Electrical life at rated load AC1	cycles	100 · 10 <sup>3</sup>	40.31
Operate/release time	ms	7/3 - (12/4 sensitive)	40.51
Insulation between coil and contacts (1.2/50 $\mu$ s)	kV	6 (8 mm)	40.52
Dielectric strength between open contacts V AC		1,000	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 AgSnO<sub>2</sub> 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

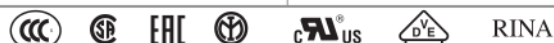
### Contact specification

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

### Technical data

Mechanical life cycles	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>
Electrical life at rated load AC1 cycles	200 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time ms	7/3 (10/3 sensitive)	7/3 (10/3 sensitive)
Insulation between coil and contacts (1.2/50 µs) kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts V AC	1,000	1,000
Ambient temperature range °C	-40...+85	-40...+85
Environmental protection	RT II**	RT II**

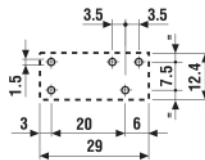
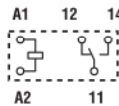
### Approvals (according to type)



## 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

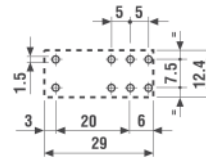
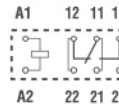
Pin length 3,5 mm for PCB only  
Pin length 5.3 mm for PCB or sockets

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

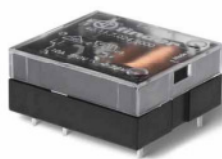
See ordering information

## Features

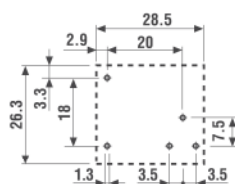
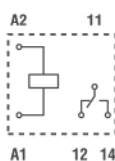
1 Pole relay range  
- 1 Pole 10 A (Flat pack)

- DC coils
- Cadmium Free option available
- 8 mm, 6 kV (1.2/50  $\mu$ s) 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	$20 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$
Operate/release time	ms	12/4
Insulation between coil and contacts (1.2/50 $\mu$ s)	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** —————  
 1 = PCB - 3.5 mm pinning, flat  
 3 = PCB/Plug-in - 3.5 mm pinning  
 5 = PCB/Plug-in - 5 mm pinning  
 6 = PCB/Plug-in - 5 mm pinning

**No. of poles** —————  
 1 = 1 pole  
 2 = 2 pole

**Coil version** —————  
 6 = AC/DC bistable  
 7 = Sensitive DC, 0.5 W  
 8 = AC (50/60 Hz)  
 9 = Standard DC, 0.65 W

**Coil voltage** —————  
 See coil specifications

**A: Contact material**  
See table below





**B: Contact circuit**  
0 = CO (nPDT)  
3 = NO (nPST)

**C: Options**  
0 = Pins length 5.3 mm (Plug-in relays)  
2 = Pins length 3.5 mm (PCB relays)

**D: Special versions**  
0 = Standard  
1 = Wash tight (RT III)  
3 = High temperature (+ 125 °C) wash tight

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

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

<b>40.31</b> 1 pole 10 A 	<b>40.31 New</b> 1 pole 12 A 	<b>40.61</b> 1 pole 16 A 	<b>40.61 New</b> 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	

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

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

## Technical data

A

## Insulation according to EN 61810-1

		1 pole		2 pole	
Nominal voltage of supply system	V AC	230/400		230/400	
Rated insulation voltage	V AC	250	400	250	400
Pollution degree		3	2	3	2

## Insulation between coil and contact set

Type of insulation		Reinforced (8 mm)		Reinforced (8 mm)	
Overvoltage category		III		III	
Rated impulse voltage	kV (1.2/50 µs)	6		6	
Dielectric strength	V AC	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

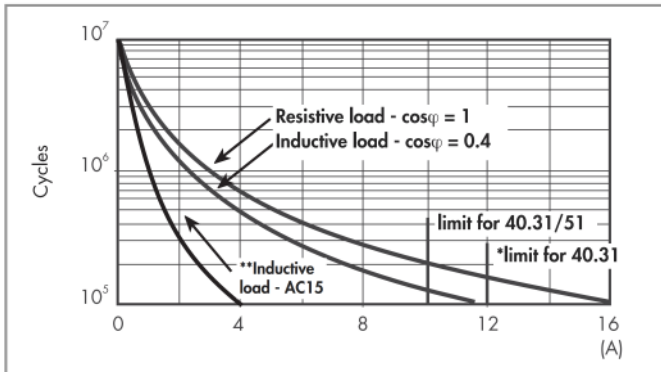
Burst (5...50)ns, 5 kHz, on A1 - A2		EN 61000-4-4		level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (differential mode)		EN 61000-4-5		level 3 (2 kV)	

## Other data

Bounce time: NO/NC		ms	2/5	
Vibration resistance (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

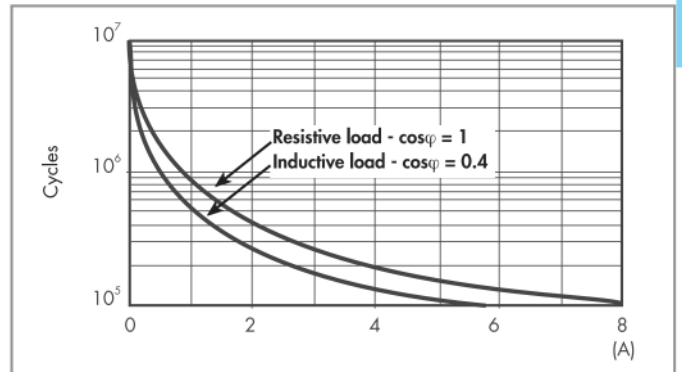
**F 40 - Electrical life (AC) v contact current**  
Types 40.31/51/61



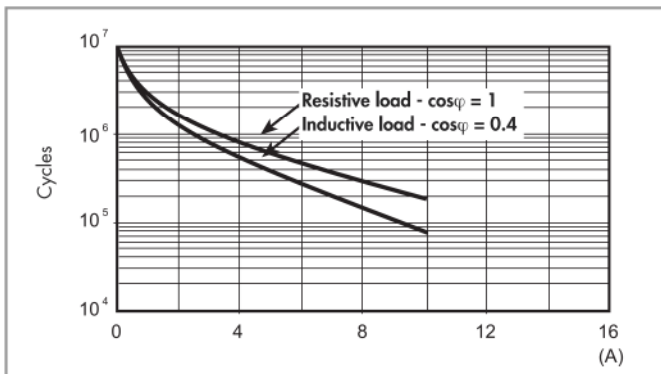
\* limit for 40.31, see page 3

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

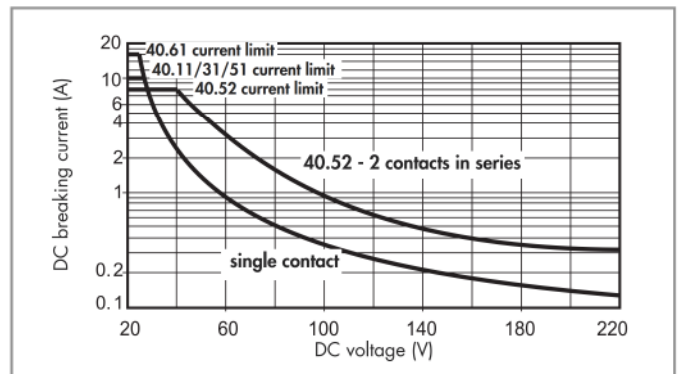
**F 40 - Electrical life (AC) v contact current**  
Type 40.52



**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 $U_N$	Coil code	Operating range		Resistance	Rated coil consumption
V		$U_{min}$ V	$U_{max}$ V	R $\Omega$	I at $U_N$ 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	Rated coil consumption
V		$U_{min}^*$ V	$U_{max}$ V	R $\Omega$	I at $U_N$ mA
5	7.005	3.7	7.5	50	100
6	7.006	4.4	9	75	80
7	7.007	5.1	10.5	100	70
9	7.009	6.6	13.5	160	56
12	7.012	8.8	18	288	42
14	7.014	10.2	21	400	35
18	7.018	13.2	27	650	27.7
21	7.021	15.4	31.5	900	23.4
24	7.024	17.5	36	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 $U_N$	Coil code	Operating range		Resistance	Rated coil consumption
V		$U_{min}$ V	$U_{max}$ V	R $\Omega$	I at $U_N$ 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

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

Nominal voltage $U_N$	Coil code	Operating range		Resistance	Rated coil consumption I at $U_N$ (50Hz)
V		$U_{min}$ V	$U_{max}$ V	R $\Omega$	I at $U_N$ 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)

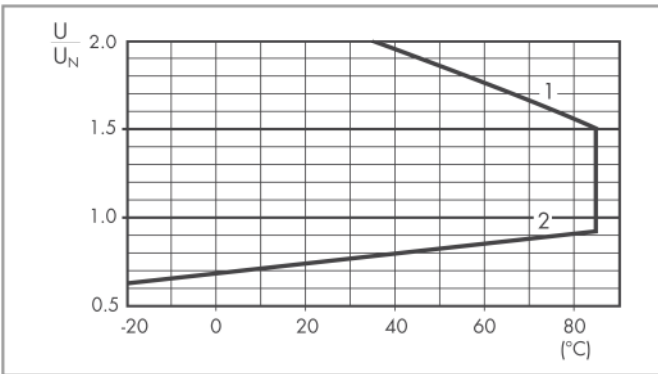
Nominal voltage $U_N$	Coil code	Operating range		Resistance	Rated coil consumption I at $U_N$	DC: Release resistance** $R_{DC}$
V		$U_{min}$ V	$U_{max}$ V	R $\Omega$	I at $U_N$ mA	$R_{DC}$ $\Omega$
5	6.005	4	5.5	23	215	37
6	6.006	4.8	6.6	33	165	62
12	6.012	9.6	13.2	130	83	220
24	6.024	19.2	26.4	520	40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

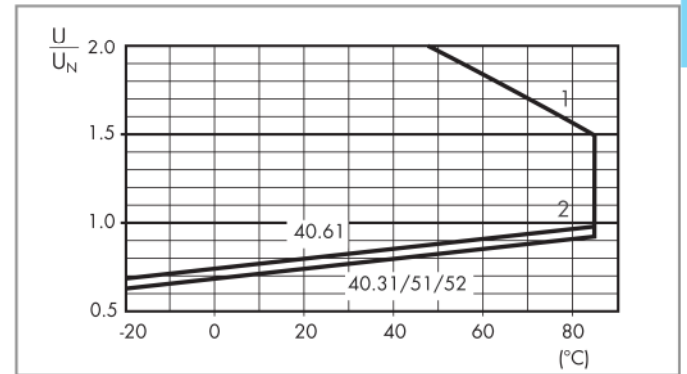


## Coil specifications

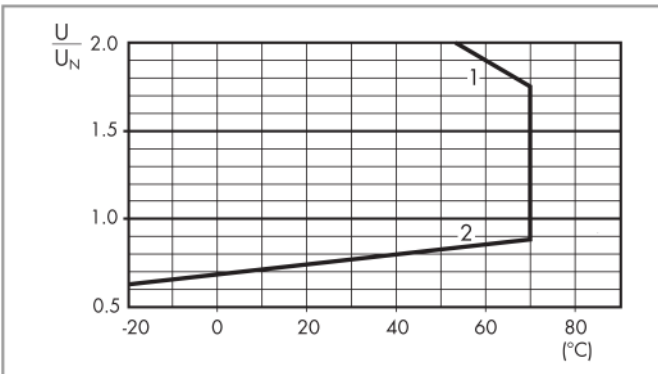
**R 40 - DC coil operating range v ambient temperature**  
Standard coil



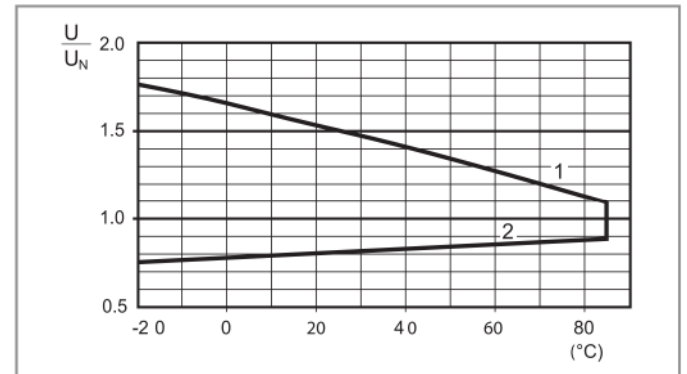
**R 40 - DC coil operating range v ambient temperature**  
Sensitive coil, types 40.31/51/52/61



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



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

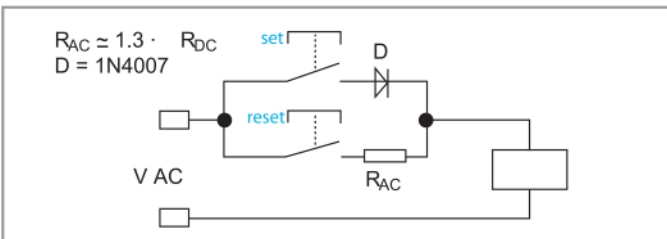


1 - Max. permitted coil voltage.  
2 - Min. pick-up voltage with coil at ambient temperature.

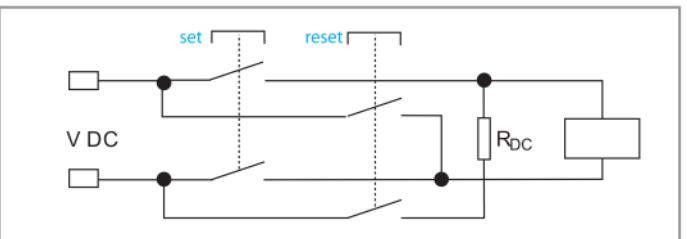
1 - Max. permitted coil voltage.  
2 - Min. pick-up voltage with coil at ambient temperature.

## 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.

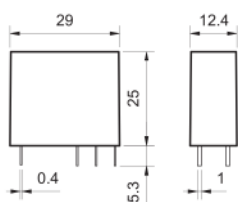
On momentary closure of the SET switch the relay is magnetised and the relay contacts transfer to the set position and remain in this position.

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

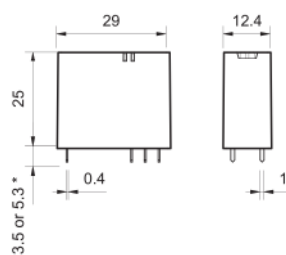
**Notes:** The minimum SET or RESET impulse time is 20 ms. The maximum time can be continuous. In practice, always ensure that the SET and RESET contacts cannot be operated simultaneously.

## Outline drawings

Type 40.31/51/52/61



Type 40.31/61



\* (3.5 or 5.3) mm see ordering code

Type 40.11

