

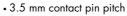
Features 41.31 41.52 41.61

1 & 2 Pole - Low profile (15.7 mm height) 41.31 - 1 Pole 12 A (3.5 mm pin pitch) 41.52 - 2 Pole 8 A (5 mm pin pitch) 41.61 - 1 Pole 16 A (5 mm pin pitch)

PCB mount - direct or via PCB socket

- DC coils 400 mW
- 8 mm, 6 kV (1.2/50 μs) isolation, coil-contacts
- Cadmium Free contact materials
- Flux proof: RT II standard, (RT III option)





- 1 Pole 12 A
- PCB direct or via socket



• 5 mm contact pin pitch

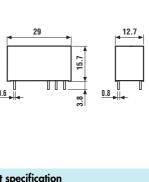
- 2 Pole 8 A
- PCB direct or via socket

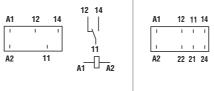


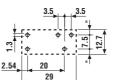
• 5 mm contact pin pitch

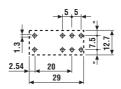
- 1 Pole 16 A
- PCB direct or via socket

(22) 12 14 (24)









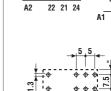
-40...+85

RT II

VDE

CAN_{OR}

PG



		Copper side view Copper side view		Copper side view	
Contact specification					
Contact configuration		1 CO (SPDT)	2 CO (DPDT)	1 CO (SPDT)	
Rated current/Maximum pe	eak current A	12/25	8/15	16/30	
Rated voltage/Maximum sw	itching voltage V AC	250/400	250/400	250/400	
Rated load AC1	VA	3,000	2,000	4,000	
Rated load AC15 (230 V A	AC) VA	600	400	750	
Single phase motor rating ([230 V AC) kW	0.5	0.3	0.5	
Breaking capacity DC1: 30)/110/220 V A	12/0.3/0.12	8/0.3/0.12	16/0.3/0.12	
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	300 (5/5)	
Standard contact material		AgNi	AgNi	AgNi	
Coil specification					
Nominal voltage (U_N)	V AC (50/60 Hz)	_	_	_	
	V DC	12 - 24 - 48 - 60 - 110	12 - 24 - 48 - 60 - 110	12 - 24 - 48 - 60 - 110	
Rated power AC/DC	VA (50 Hz)/W	—/0.4	—/0.4	—/0.4	
Operating range	AC	_	_	_	
	DC	(0.71.5)U _N	(0.71.5)U _N	(0.71.5)U _N	
Holding voltage	AC/DC	$-/0.4U_{N}$	—/0.4 U _N	—/0.4 U _N	
Must drop-out voltage	AC/DC	$-/0.1U_{N}$	−/0.1 U _N	—/0.1 U _N	
Technical data					
Mechanical life AC/DC cycles		—/30·10°	—/30·10°	—/30·10 ⁶	
Electrical life at rated load AC1 cycles		150 · 10³	80 · 10³	70 · 10³	
Operate/release time	ms	5/4	5/4	5/4	
Insulation between coil and co	ntacts (1.2/50 μs) kV	6 (8 mm)	6 (8 mm)	6 (8 mm)	
Dielectric strength between c	ppen contacts V AC	1,000	1,000	1,000	

-40...+85

RT II

°C

Ambient temperature range Environmental protection

Approvals (according to type)

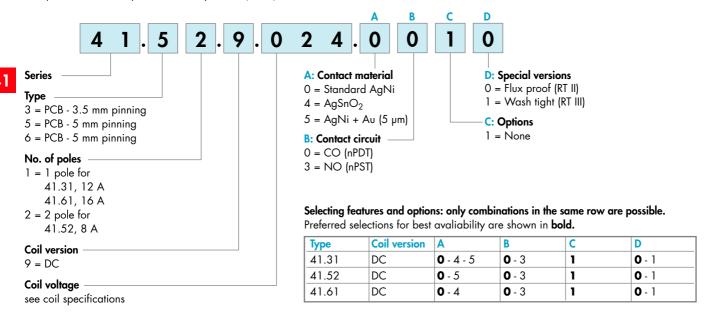
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RT II



Ordering information

Example: 41 series low-profile PCB relay, 2 CO (DPDT), 24 V DC coil.



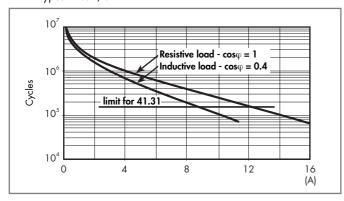
Technical data

Insulation					
Insulation according to EN 61810-1 ed. 2	insulation rated voltage	V	250	400	
	rated impulse withstand volta	ge kV	4	4	
	pollution degree	0	3	2	
	overvoltage category		III	III	
Insulation between coil and contacts (1.2/50 µs)		kV	6 (8 mm)		
Dielectric strength between open contacts		V AC	1,000		
Dielectric strength between adjacent contacts			2,000		
Conducted disturbance immunity					
Burst (550)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 (555)Hz, max. ± 1 mm: NO/NC		g/g	15/2		
Shock resistance		g	16		
Power lost to the environment	without contact current	W	0.4		
	with rated current	W	1.7 (41.31)	1.2 (41.52)	1.8 (41.61)
Recommended distance between relays mounted on PCB		mm	≥ 5		

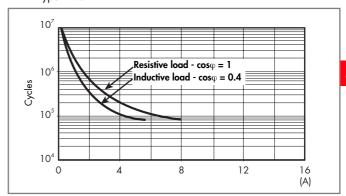


Contact specification

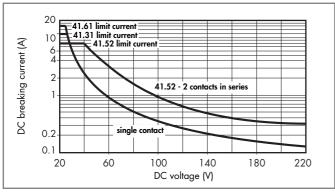
F 41 - Electrical life (AC) v contact current Types 41.31/61



F 41 - Electrical life (AC) v contact current Type 41.52



H 41- Maximum DC1 breaking capacity



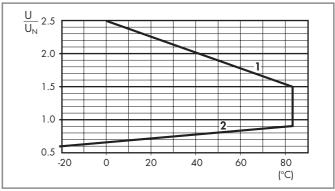
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 100·10³ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release time for the load will be increased.

Coil specifications

DC coil data

Nominal	Coil	Operating range		Resistance	Rated coil
voltage	code				consumption
U _N		U_{min}	U _{max}	R	I at U _N
V		٧	٧	Ω	mA
12	9 .012	8.4	18	360	33.3
24	9 .024	16.8	36	1,440	19.7
48	9 .048	33.6	72	5,760	8.3
60	9 .060	42	90	9,000	6.6
110	9 .110	77	165	24,200	4.5

R 41 - DC coil operating range v ambient temperature



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



95 Series - Sockets and accessories for 41 series relays





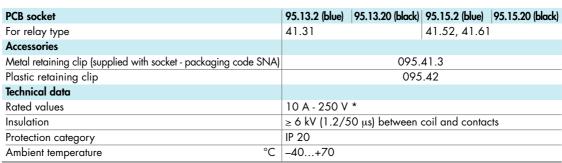




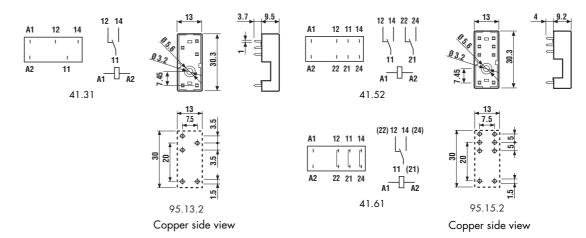
Approvals (according to type):







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



Packaging codes

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

Code options according to the last three letters:

