

Solid State Relays

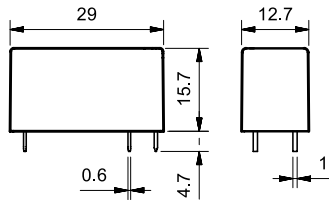
Printed circuit mount:

- direct or via PCB socket

35 mm rail mount:

- via screw or screwless sockets)

- Single circuit output switching options
 - 5 A 24 V DC
 - 3 A 240 V AC
- Silent, high speed switching with long electrical life
- LED indicator
- Low profile (15.7 mm)
- Wash tight: RT III
- 2500 V AC insulation, input-output



41.81 - 9024

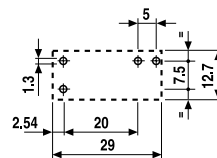
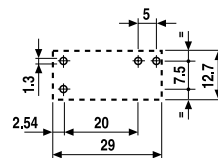
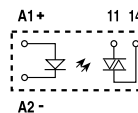
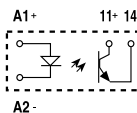


- 5 A, 24 V DC output switching
- PCB or 93 Series sockets

41.81 - 8240



- 3 A, 240 V AC output switching
- Zero crossing switching
- PCB or 93 Series sockets



Copper side view

Copper side view

Output circuit

Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/ Maximum peak current (10 ms)	A	5/40	3/40
Rated voltage/ Maximum blocking voltage	V	(24/35)DC	(240/—)AC
Switching voltage range	V	(1.5...24)DC	(12...275)AC
Repetitive peak off-state voltage	V _{pk}	—	600
Minimum switching current	mA	1	50
Max. "OFF-state" leakage current	mA	0.01	1
Max. "ON-state" voltage drop	V	0.3	1.1

Input circuit

Nominal voltage	V DC	12	24	12	24
Operating range	V DC	8...17	14...32	8...17	14...32
Control current	mA	5.5	9	8.8	9
Release voltage	V DC	4	9	4	9
Impedance	Ω	1550	2600	1030	2600

Technical data

Operate/release time	ms	0.05/0.25	10/10
Dielectric strength between input/output	V AC	2500	2500
Ambient temperature range	°C	-20...+60	-20...+60
Environmental protection		RT III	RT III

Approvals (according to type)

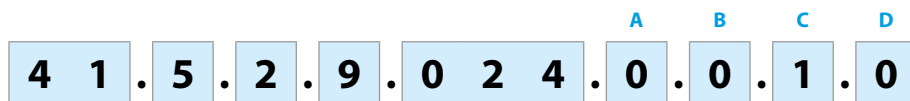


Ordering information

Electromechanical relay (EMR)

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

A



- Series** —————
- Type** —————
3 = PCB - 3.5 mm pinning
5 = PCB - 5 mm pinning
6 = PCB - 5 mm pinning
- No. of poles** —————
1 = 1 pole for
 41.31, 12 A
 41.61, 16 A
2 = 2 pole for
 41.52, 8 A
- Coil version** —————
6 = DC bistable, 2 coils
8 = AC
9 = DC
- Coil voltage** —————
See coil specifications

- A: Contact material**
0 = Standard AgNi
4 = AgSnO₂
5 = AgNi + Au
- B: Contact circuit**
0 = CO (nPDT)
3 = NO (nPST)

- D: Special versions**
0 = Flux proof (RT II)
1 = Wash tight (RT III)
6 = Bistable version (RT II)
- C: Options**
0 = Production line 0
1 = Production line 1

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
41.31	DC	0 - 4 - 5	0 - 3	1	0 - 1
41.52	DC	0 - 5	0 - 3	1	0 - 1
41.61	DC	0 - 4	0 - 3	1	0 - 1
41.31/52/61	AC	0	0	0	0
41.52	DC bistable	4	0	1	6
41.61	DC bistable	4	0 - 3	1	6

Solid state relay (SSR)

Example: 41 series SSR relay, 5 A output, 24 V DC supply.



- Series** —————
- Type** —————
8 = SSR type
- Output** —————
1 = 1 NO (SPST-NO)
- Input circuit** —————
See coil specifications

- Output circuit**
9024 = 5 A - 24 V DC
8240 = 3 A - 240 V AC