

Solid State Relays

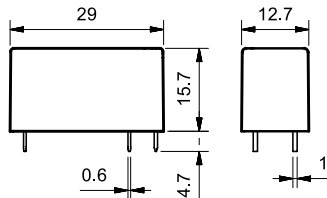
Printed circuit mount:

- direct or via PCB socket

35 mm rail mount:

- via screw or screwless sockets

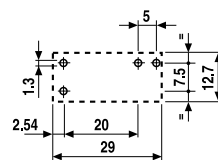
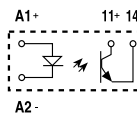
- Single circuit output switching options
 - 5 A 24 V DC
 - 3 A 240 V AC
- Silent, high speed switching with long electrical life
- LED indicator
- Low profile (15.7 mm)
- Wash tight: RT III
- 2500 V AC insulation, input-output



41.81 - 9024



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

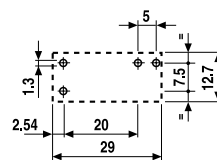
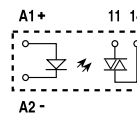


Copper side view

41.81 - 8240



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



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

41.529.024.0010

Series — 41

Type — 5
3 = PCB - 3.5 mm pinning
5 = PCB - 5 mm pinning
6 = PCB - 5 mm pinning

No. of poles — 2
1 = 1 pole for
41.31, 12 A
41.61, 16 A
2 = 2 pole for
41.52, 8 A

Coil version — 9
6 = DC bistable, 2 coils
8 = AC
9 = DC

Coil voltage — 24
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.

41.817.024.9024

Series — 41

Type — 8
8 = SSR type

Output — 1
1 = 1 NO (SPST-NO)

Input circuit — 9024
See coil specifications

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