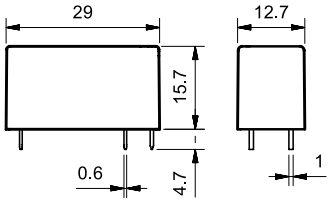
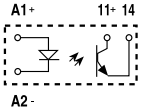
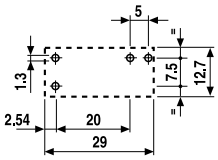
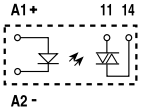
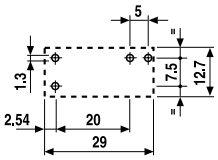
Solid State Relays

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	41.81 - 8240
		
	• 5 A, 24 V DC output switching • PCB or 93 Series sockets	• 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

A

Electromechanical relay (EMR)

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

									A		B		C	D
4	1	.	5	.	2	.	9	.	0	2	4	.	0	.	0	.	1	.	0

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 = $AgSnO_2$
5 = AgNi + Au

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

C: Options
0 = Production line 0
1 = Production line 1

D: Special versions
0 = Flux proof (RT II)
1 = Wash tight (RT III)
6 = Bistable version (RT II)

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.

4	1	.	8	1	.	7	.	0	2	4	.	9	0	2	4

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