Features

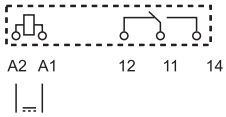
Ultra-slim 1 Pole - 6 A relay

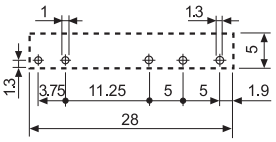
Printed circuit mount
- direct or via PCB socket
35 mm rail mount
- via screw, screwless or push-in terminal sockets

- 1 Pole changeover contacts or 1 Pole normally open contact
- Ultra slim, 5 mm, package
- Sensitive DC coil - 170 mW (Dual AC/DC coil drive possible using 93 series sockets)
- UL Listing (certain relay/socket combinations)
- Cadmium Free contact materials
- 8/8 mm clearance/creepage distance
- 6 kV (1.2/50 µs) insulation, coil-contacts

34.51

- 5 mm wide
- Low coil power
- PCB or 93 series sockets





FOR UL RATINGS SEE:
"General technical information" page V

For outline drawing see page 5

Copper side view

Contact specification		
Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	6/10
Rated voltage/Maximum switching voltage	V AC	250/400
Rated load AC1	VA	1,500
Rated load AC15 (230 V AC)	VA	300
Single phase motor rating (230 V AC)	kW	0.185
Breaking capacity DC1: 30/110/220 V	A	6/0.2/0.12
Minimum switching load	mW (V/mA)	500 (12/10)
Standard contact material		AgNi
Coil specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	—
	V DC	5 - 12 - 24 - 48 - 60
Rated power AC/DC	VA (50 Hz)/W	—/0.17
Operating range	AC	—
	DC	(0.7...1.5)U_N
Holding voltage	AC/DC	—/0.4 U_N
Must drop-out voltage	AC/DC	—/0.05 U_N
Technical data		
Mechanical life AC/DC	cycles	—/10 · 10^6
Electrical life at rated load AC1	cycles	60 · 10^3
Operate/release time	ms	5/3
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)
Dielectric strength between open contacts	V AC	1,000
Ambient temperature range	°C	–40...+85
Environmental protection		RT II
Approvals (according to type)		

34 Series - Slim solid state PCB relays (SSR) 0.1 - 2 A

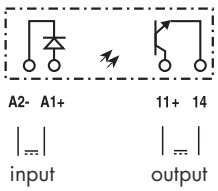
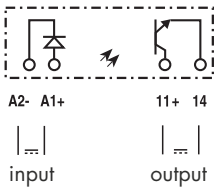
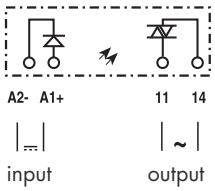
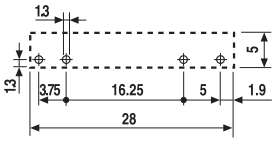
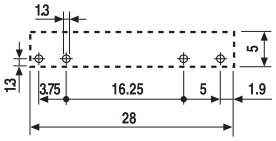
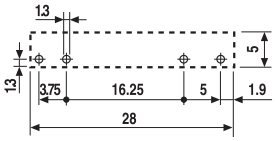
Features

A

Ultra-slim - Solid State Relays

Printed circuit mount
- direct or via PCB socket
35 mm rail mount
- via screw, screwless or push-in terminal sockets

- Single circuit output switching options
  - 2 A 24 V DC
  - 0.1 A 48 V DC
  - 2 A 240 V AC
- Silent, high speed switching with long electrical life
- Ultra slim, 5 mm, package
- Sensitive DC Input circuits (Dual AC/DC input drive possible using 93 series sockets)
- UL Listing (certain relay/socket combinations)
- Wash tight: RT III
- 2,500 V insulation, input-output

	34.81-9024	34.81-7048	34.81-8240
			
	• 2 A, 24 V DC output switching • PCB or 93 series sockets	• 0.1 A, 48 V DC output switching • PCB or 93 series sockets	• 2 A, 240 V AC output switching • Zero crossing switching • PCB or 93 series sockets
			
			
For outline drawing see page 5	Copper side view	Copper side view	Copper side view

Output circuit											
Contact configuration		1 NO (SPST-NO)				1 NO (SPST-NO)			1 NO (SPST-NO)		
Rated current/Maximum peak current (10 ms)	A	2/20				0.1/0.5			2/40		
Rated voltage/Maximum blocking voltage	V	(24/33)DC				(48/60)DC			(240/—)AC		
Switching voltage range	V	(1.5...24)DC				(1.5...48)DC			(12...275)AC		
Repetitive peak off-state voltage	V_{pk}	—				—			600		
Minimum switching current	mA	1				0.05			22		
Max. "OFF-state" leakage current	mA	0.001				0.001			1.5		
Max. "ON-state" voltage drop	V	0.12				1			1.6		
Input circuit											
Nominal voltage	V DC	5	12	24	60	24	60	5	12	24	60
Rated power AC/DC	W	0.035	0.087	0.17	0.18	0.17	0.18	0.060	0.087	0.17	0.18
Operating range	V DC	3.5...12	8...17	16...30	35...72	16...30	35...72	3.5...10	8...17	16...30	35...72
Control current	mA	7	7.2	7	3	7	3	12	7.2	7	3
Release voltage	V DC	1	4	10	20	10	20	1	4	10	20
Impedance	Ω	715	1,940	3,200	21,300	3,200	21,300	416	1,940	3,200	21,300
Technical data											
Operate/release time	ms	0.1/0.6*				0.04/0.6*			12/12*		
Dielectric strength between input/output	V	2,500				2,500			2,500		
Ambient temperature range	°C	–20...+60				–20...+60			–20...+60		
Environmental protection		RT III				RT III			RT III		
Approvals (according to type)											

* Note: all technical data relates to using the relay directly on PCB or PCB socket type 93.11.
If the relay is used with 35 mm rail socket type 93.51, refer to the technical data of 38 Series; if used with types 93.60, 93.61, 93.62, 93.63, 93.64, 93.65, 93.66, 93.67,93.68 and 93.69, refer to the technical data of the *Master**INTERFACE*** 39 Series.