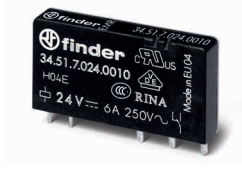
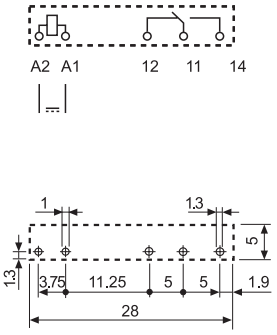
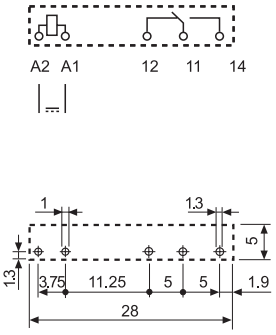
Ultra-slim 1 Pole - 6 A relay

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	NEW 34.51-5010
		
	• 5 mm wide • Low coil power • PCB or 93 series sockets	• 5 mm wide • Low coil power • PCB or 93 series sockets • Contact AgNi + Au
		
FOR UL RATINGS SEE: *"General technical information" page* V		
For outline drawing see page 5	Copper side view	Copper side view
Contact specification		
Contact configuration	1 CO (SPDT)	1 CO (SPDT)
Rated current/ Maximum peak current A	6/10	6/10
Rated voltage/ Maximum switching voltage V AC	250/400	250/400
Rated load AC1 VA	1500	1500
Rated load AC15 (230 V AC) VA	300	300
Single phase motor rating (230 V AC) kW	0.185	0.185
Breaking capacity DC1: 30/110/220 V A	6/0.2/0.12	6/0.2/0.12
Minimum switching load mW (V/mA)	500 (12/10)	50 (5/2)
Standard contact material	AgNi	AgNi + Au
Coil specification		
Nominal voltage (U_N) V AC (50/60 Hz)	—	—
V DC	5 - 12 - 24 - 48 - 60	5 - 12 - 24 - 48 - 60
Rated power AC/DC VA (50 Hz)/W	—/0.17	—/0.17
Operating range AC	—	—
DC	(0.7…1.5)U_N	(0.7…1.5)U_N
Holding voltage AC/DC	—/0.4 U_N	—/0.4 U_N
Must drop-out voltage AC/DC	—/0.05 U_N	—/0.05 U_N
Technical data		
Mechanical life AC/DC cycles	—/10 · 10^6	—/10 · 10^6
Electrical life at rated load AC1 cycles	60 · 10^3	60 · 10^3
Operate/release time ms	5/3	5/3
Insulation between coil and contacts (1.2/50 µs) kV	6 (8mm)	6 (8mm)
Dielectric strength between open contacts V AC	1000	1000
Ambient temperature range °C	–40…+85	–40…+85
Environmental protection	RT II	RT II
Approvals (according to type)		

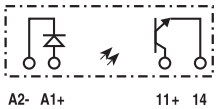
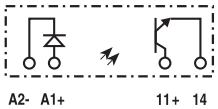
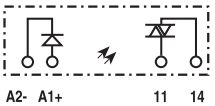
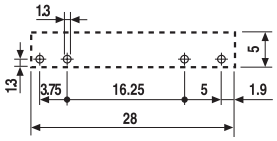
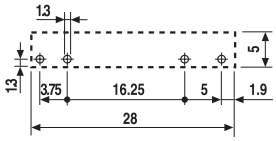
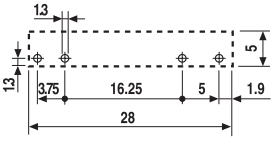
34 SERIES
Slim solid state PCB relays (SSR) 0.1 - 2 A

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
- 2500 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	35…12	8…17	16…30	35…72	16…30	35…72	35…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	1940	3200	21300	3200	21300	416	1940	3200	21300
Technical data											
Operate/release time	ms	0.1/0.6*				0.04/0.6*		12/12*			
Dielectric strength between input/output	V	2500				2500		2500			
Ambient temperature range	°C	–20…+60				–20…+60		–20…+60			
Environmental protection		RT III				RT III		RT III			
Approvals (according to type)		CE ANCE EAC PG cULus						CE EAC PG cULus			

* 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.