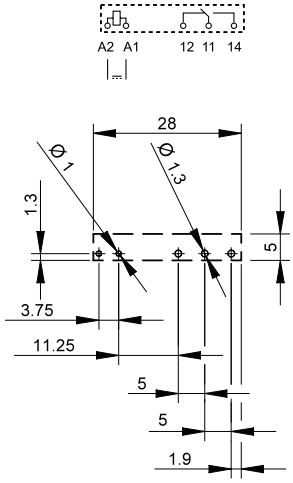
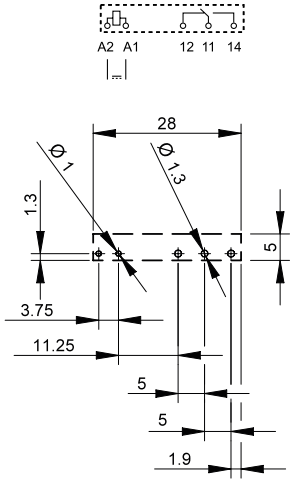
Ultra-slim 1 Pole - 6 A relay

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

For UL ratings see:
"General technical information" page V

	34.51	**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 outline drawing see page 9	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 (8 mm)	6 (8 mm)
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)	EAC RINA cULus	

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

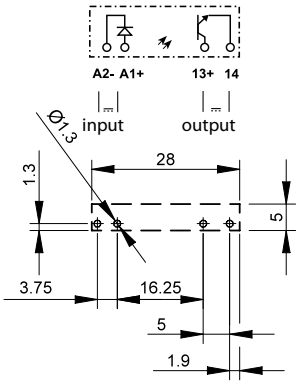
- Single circuit output switching options
  - 6 A, 24 V DC
  - 2 A, 240 V AC
- Silent, high speed switching with long electrical life
- Ultra slim (5 mm), package
- Sensitive DC Input circuits (Dual AC/DC input drive possible using 93 series sockets)
- UL Listing (certain relay/socket combinations)
- Wash tight: RT III
- 3000 V AC insulation, input-output

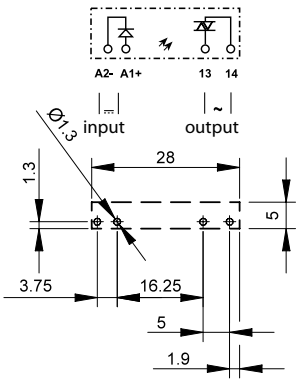
NEW **34.81.7.xxx.9024**

- 6 A, 24 V DC output switching
- PCB or 93 series sockets

34.81.7.xxx.8240

- 2 A, 240 V AC output switching
- Zero crossing switching
- PCB or 93 series sockets





For outline drawing see page 9

		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	6/50				2/80			
Rated switching voltage	V	24 DC				240 AC (50/60 Hz)			
Switching voltage range	V	(1.5…33)DC				(12…275)AC			
Maximum blocking voltage	V	33				—			
Repetitive peak off-state voltage	V_{pk}	—				800			
Rated load DC13	W	36				—			
Rated load AC15	VA	—				300			
Minimum switching current	mA	1				35			
Max. "OFF-state" leakage current	mA	0.001				1.5			
Max. "ON-state" voltage drop	V	0.4				1.6			
Supply specification									
Nominal voltage (U_N)	V DC	5	12	24	60	5	12	24	60
Rated power	W	0.035	0.085	0.17	0.21	0.06	0.085	0.17	0.21
Operating range	V DC	3.5…12	8…17	16…30	35…72	3.5…10	8…17	16…30	35…72
Control current	mA	7	7	7	3.5	12	7	7	3.5
Release voltage	V DC	4	4	10	20	1	4	10	20
Technical data									
Electrical life at rated load	cycles	> 10^6				> 10^6			
Operate/release time	ms	0.02/0.2				11/11			
Insulation between input and output (1.2/50µs)	kV	4				4			
Ambient temperature range	°C	–20…+70*				–20…+50*			
Environmental protection		RT III				RT III			
Approvals (according to type)		CE 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 types 93.01 and 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. See L34 diagrams page 8