

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 μ s) insulation, coil-contacts

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 9

Contact specification

Contact configuration

Rated current/
Maximum peak current

A

Rated voltage/
Maximum switching voltage

V AC

Rated load AC1

VA

Rated load AC15 (230 V AC)

VA

Single phase motor rating (230 V AC)

kW

Breaking capacity DC1: 30/110/220 V

A

Minimum switching load

mW (V/mA)

Standard contact material

Coil specificationNominal voltage (U_N)

V AC (50/60 Hz)

—

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 · 10⁶—/10 · 10⁶

Electrical life at rated load AC1

cycles

60 · 10³60 · 10³

Operate/release time

ms

5/3

5/3

Insulation between coil
and contacts (1.2/50 μ s)

kV

6 (8 mm)

6 (8 mm)

Dielectric strength

between open contacts

V AC

1000

1000

Ambient temperature range

°C

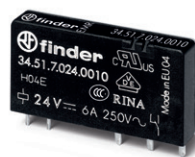
−40...+85

−40...+85

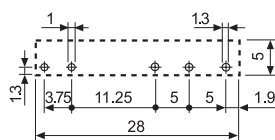
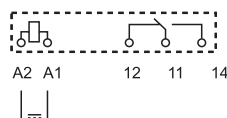
Environmental protection

RT II

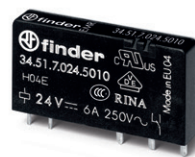
RT II

Approvals (according to type)**34.51**

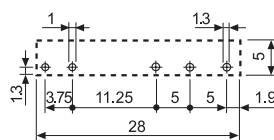
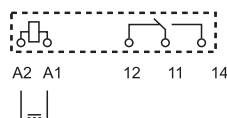
- 5 mm wide
- Low coil power
- PCB or 93 series sockets



Copper side view

34.51-5010

- 5 mm wide
- Low coil power
- PCB or 93 series sockets
- Contact AgNi + Au



Copper side view

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

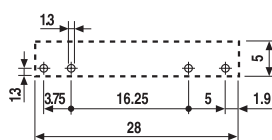
NEW 34.81.7.xxx.9024



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



input output



Copper side view

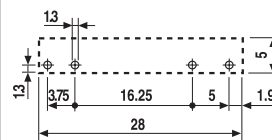
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- 2 A, 240 V AC output switching
- Zero crossing switching
- PCB or 93 series sockets



input output



Copper side view

For outline drawing see page 9

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	35...12	8...17	16...30	35...72	35...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)



* 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 MasterINTERFACE 39 Series.

See L34 diagrams page 8