

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

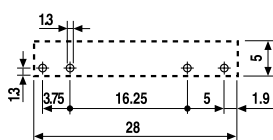
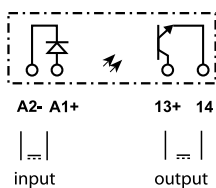


- 6 A, 24 V DC output switching
- PCB or 93 series sockets

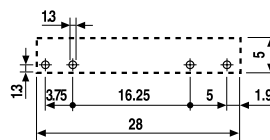
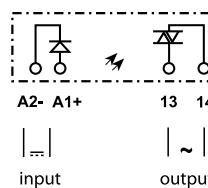
34.81.7.xxx.8240



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



Copper side view



Copper side view

For outline drawing see page 9

| Output circuit | | 34.81.7.060.9024 | | | | 34.81.7.060.8240 | | | |
|--|-----------------|-------------------|--------|---------|---------|-------------------|--------|---------|---------|
| Contact configuration | | 1 NO (SPST-NO) | | | | 1 NO (SPST-NO) | | | |
| Rated current/ | A | 6/50 | | | | 2/80 | | | |
| Maximum peak current (10 ms) | | | | | | | | | |
| 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 | | 5 | 12 | 24 | 60 | 5 | 12 | 24 | 60 |
| Nominal voltage (U _N) | V DC | | | | | | | | |
| 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 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 MasterINTERFACE 39 Series. See L34 diagrams page 8