

Main

| | |
|---------------------------|---------------------|
| Range of product | Zelio Logic |
| Product or component type | Compact smart relay |

Complementary

| | |
|--------------------------------|--|
| Local display | With |
| Number of control scheme lines | <= 200 with FBD programming 120 with ladder programming |
| Cycle time | 6...90 ms |
| Backup time | 10 years at 25 °C |
| Clock drift | 12 min/year at 0...55 °C 6 s/month at 25 °C |
| Checks | Program memory on each power up |
| [Us] rated supply voltage | 100...240 V |
| Supply voltage limits | 85...264 V |
| Supply frequency | 50/60 Hz |
| Supply current | 30 mA at 240 V (without extension) 80 mA at 100 V (without extension) |
| Power consumption in VA | 7 VA without extension |
| Isolation voltage | 1780 V |
| Protection type | Against inversion of terminals (control instructions not executed) |
| Discrete input number | 6 |
| Discrete input voltage | 100...240 V AC |
| Discrete input current | 0.6 mA |
| Discrete input frequency | 47...53 Hz 57...63 Hz |
| Voltage state 1 guaranteed | >= 79 V for discrete input |
| Voltage state 0 guaranteed | <= 40 V for discrete input |
| Current state 1 guaranteed | > 0.17 mA for discrete input |
| Current state 0 guaranteed | < 0.5 mA for discrete input |
| Input impedance | 350 kOhm (discrete input) |
| Number of outputs | 4 relay output(s) |
| Output voltage limits | 24...250 V AC 5...30 V DC (relay output) |
| Contacts type and composition | NO for relay output |
| Output thermal current | 8 A for all 4 outputs (relay output) |

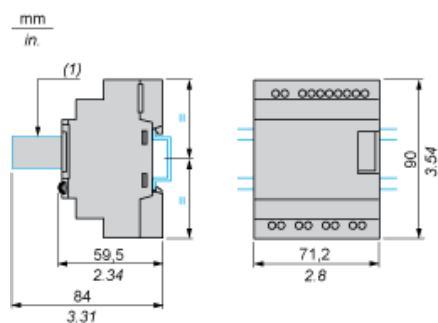
| | |
|---|---|
| Electrical durability | 500000 cycles AC-12 at 230 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-15 at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-12 at 24 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-13 at 24 V, 0.6 A for relay output conforming to EN/IEC 60947-5-1 |
| Switching capacity in mA | >= 10 mA at 12 V (relay output) |
| Operating rate in Hz | 0.1 Hz (at I _e) for relay output 10 Hz (no load) for relay output |
| Mechanical durability | 10000000 cycles (relay output) |
| [U _{imp}] rated impulse withstand voltage | 4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1 |
| Clock | Without |
| Response time | 10 ms (from state 0 to state 1) for relay output 5 ms (from state 1 to state 0) for relay output 50 ms with ladder programming (from state 0 to state 1) for discrete input 50 ms with ladder programming (from state 1 to state 0) for discrete input 50...255 ms with FBD programming (from state 0 to state 1) for discrete input 50...255 ms with FBD programming (from state 1 to state 0) for discrete input |
| Connections - terminals | Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm ² AWG 25...14 semi-solid Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm ² AWG 25...14 solid Screw terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm ² AWG 24...14 flexible with cable end Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm ² AWG 24...16 solid Screw terminals, clamping capacity: 2 x 0.25...2 x 0.75 mm ² AWG 24...18 flexible with cable end |
| Tightening torque | 0.5 N.m |
| Overvoltage category | III conforming to EN/IEC 60664-1 |
| Product weight | 0.25 kg |

Environment

| | |
|---------------------------------------|---|
| Immunity to microbreaks | <= 10 ms |
| Product certifications | CSA C-Tick GL GOST UL |
| Standards | EN/IEC 60068-2-27 Ea EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-12 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-6 level 3 |
| IP degree of protection | IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529 |
| Environmental characteristic | EMC directive conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61131-2 zone B Low voltage directive conforming to EN/IEC 61131-2 |
| Disturbance radiated/conducted | Class B conforming to EN 55022-11 group 1 |
| Pollution degree | 2 conforming to EN/IEC 61131-2 |
| Ambient air temperature for operation | -20...40 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -20...55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2 |
| Ambient air temperature for storage | -40...70 °C |
| Operating altitude | 2000 m |
| Altitude transport | <= 3048 m |
| Relative humidity | 95 % without condensation or dripping water |

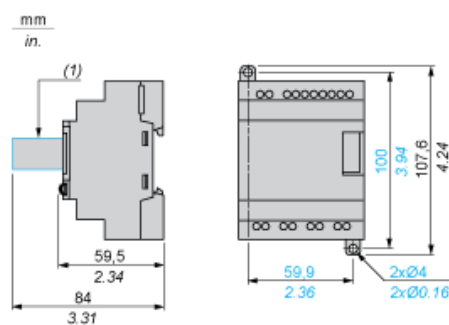
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



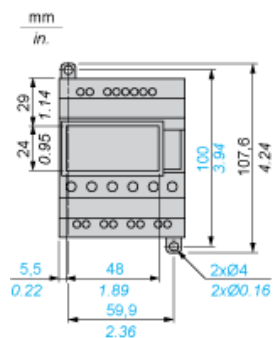
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



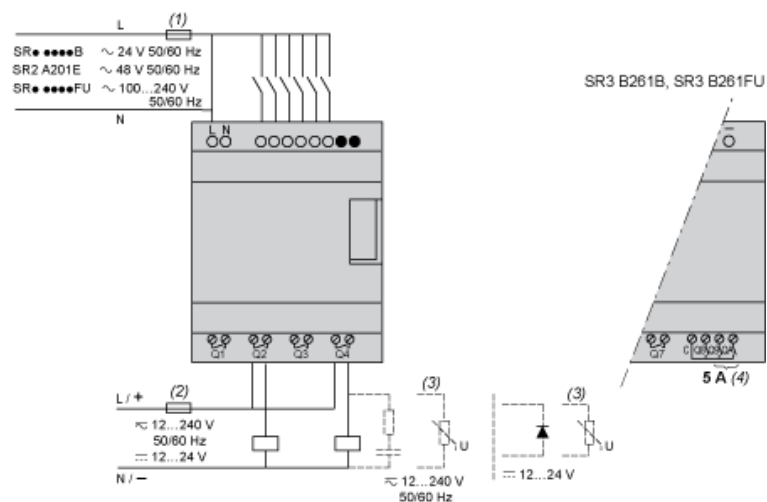
(1) With SR2USB01 or SR2BTC01

Position of Display



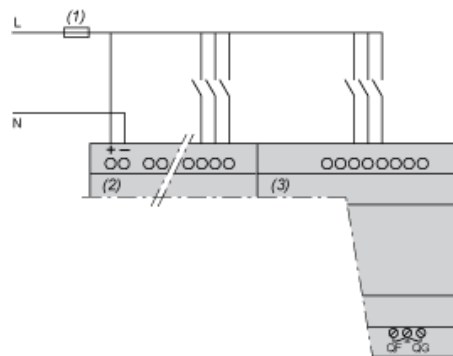
Connection of Smart Relays on AC Supply

SR...1B, SR...1FU



With Discrete I/O Extension Module

SR3B...B + SR3XT...B, SR3B...FU + SR3XT...FU

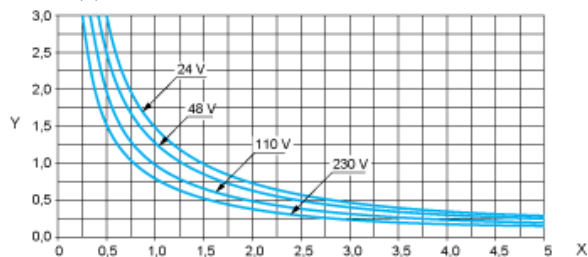


Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

AC-12 (1)

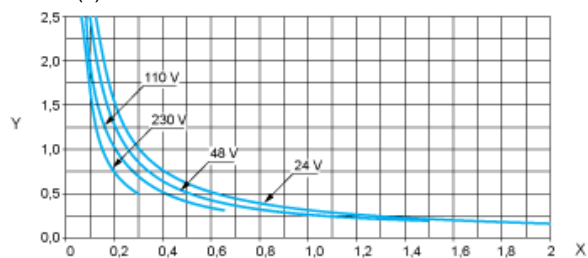


X: Current (A)

Y: Millions of operating cycles

(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, $\cos \geq 0.9$.

AC-14 (1)

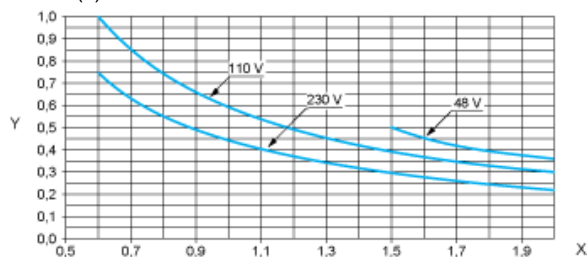


X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads ≤ 72 VA, make: $\cos = 0.3$, break: $\cos = 0.3$.

AC-15 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-15: switching electromagnetic loads ≥ 72 VA, make: $\cos = 0.7$, break: $\cos = 0.4$.

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