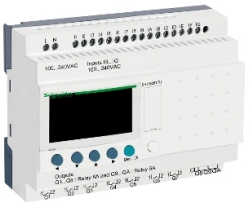
# Product data sheet

Specifications



## modular smart relay, Zelio Logic SR2 SR3, 26 IO, 100 to 240V AC, clock, display

SR3B261FU

**Product availability: Stock - Normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range of Product** | Zelio Logic |
| **Product or Component Type** | Modular smart relay |

## Complementary

| | |
|---|---|
| **Local display** | With |
| **Number or control scheme lines** | 0…500 FBD<br>0…240 ladder |
| **Cycle time** | 6…90 ms |
| **Backup time** | 10 years 77 °F (25 °C) |
| **Clock drift** | 12 min/year 32…131 °F (0…55 °C)<br>6 s/month 77 °F (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 |
| **Maximum supply current** | 100 mA 100 V without extension)<br>50 mA 240 V without extension)<br>60 mA 240 V with extensions)<br>80 mA 100 V with extensions) |
| **Power consumption in VA** | 12 VA without extension<br>17 VA with extensions |
| **Isolation voltage** | 1780 V |
| **Protection Type** | Against inversion of terminals (control instructions not executed) |
| **Discrete input number** | 16 |
| **Discrete input voltage** | 100...240 V AC |
| **Discrete input current** | 0.6 mA |
| **Discrete input frequency** | 47...53 Hz<br>57...63 Hz |
| **Voltage state 1 guaranteed** | >= 79 V discrete input |
| **Voltage state 0 guaranteed** | <= 40 V discrete input |
| **Current state 1 guaranteed** | >= 0.17 mA discrete input) |
| **Current state 0 guaranteed** | <= 0.5 mA discrete input) |
| **Input impedance** | 350 kOhm discrete input |
| **Number of Outputs** | 10 relay |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Output voltage limits** | 5...30 V DC relay output)<br>24...250 V AC |
| **Contacts type and composition** | NO relay output |
| **Output thermal current** | 5 A for 2 outputs relay output<br>8 A for 8 outputs relay output |
| **Electrical durability** | AC-12 500000 cycles 230 V, 1.5 A relay output IEC 60947-5-1<br>AC-15 500000 cycles 230 V, 0.9 A relay output IEC 60947-5-1<br>DC-12 500000 cycles 24 V, 1.5 A relay output IEC 60947-5-1<br>DC-13 500000 cycles 24 V, 0.6 A relay output IEC 60947-5-1 |
| **Switching capacity in mA** | >= 10 mA 12 V relay output) |
| **Operating rate in Hz** | 0.1 Hz at Ie)relay output<br>10 Hz no load)relay output |
| **Mechanical durability** | 10000000 cycles relay output |
| **[Uimp] rated impulse withstand voltage** | 4 kV EN/IEC 60947-1 and EN/IEC 60664-1 |
| **Clock** | With |
| **Response time** | 50 ms ladder from state 0 to state 1)discrete input<br>50 ms ladder from state 1 to state 0)discrete input<br>50...255 ms FBD from state 0 to state 1)discrete input<br>50...255 ms FBD from state 1 to state 0)discrete input<br>10 ms from state 0 to state 1)relay output<br>5 ms from state 1 to state 0)relay output |
| **Connections - terminals** | Screw terminals, 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14) semi-solid<br>Screw terminals, 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14) solid<br>Screw terminals, 1 x 0.25...1 x 2.5 mm² AWG 24...AWG 14) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16) solid<br>Screw terminals, 2 x 0.25...2 x 0.75 mm² AWG 24...AWG 18) flexible with cable end |
| **Tightening torque** | 4.4 lbf.in (0.5 N.m) |
| **Overvoltage category** | III conforming to IEC 60664-1 |
| **Product Weight** | 0.9 lb(US) (0.4 kg) |

# Environment

| | |
|---|---|
| **Immunity to microbreaks** | 10 ms |
| **Product Certifications** | GOST<br>GL<br>CSA<br>UL<br>C-tick |
| **Standards** | IEC 61000-4-12<br>IEC 60068-2-27 Ea<br>IEC 60068-2-6 Fc<br>IEC 61000-4-6 level 3<br>IEC 61000-4-5<br>IEC 61000-4-11<br>IEC 61000-4-3<br>IEC 61000-4-2 level 3<br>IEC 61000-4-4 level 3 |
| **IP degree of protection** | IP20 IEC 60529 terminal block)<br>IP40 IEC 60529 front panel) |
| **Environmental characteristic** | EMC directive conforming to IEC 61000-6-2<br>EMC directive conforming to IEC 61000-6-3<br>EMC directive conforming to IEC 61000-6-4<br>EMC directive conforming to IEC 61131-2 zone B<br>Low voltage directive conforming to IEC 61131-2 |
| **Disturbance radiated/conducted** | Class B EN 55022-11 group 1 |
| **Pollution degree** | 2 IEC 61131-2 |

| | |
|---|---|
| **Ambient air temperature for operation** | -4…104 °F (-20…40 °C) in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2<br>-4…131 °F (-20…55 °C) IEC 60068-2-1 and IEC 60068-2-2 |
| **Ambient Air Temperature for Storage** | -40…158 °F (-40…70 °C) |
| **Operating altitude** | 6561.68 ft (2000 m) |
| **Maximum altitude transport** | 10000 ft (3048 m) |
| **Relative Humidity** | 95 % without condensation or dripping water |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1000I22378 |
| **Discount Schedule** | 000I |
| **GTIN** | 3389110550009 |
| **Returnability** | Yes |
| **Country of origin** | FR |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 2.677 in (6.800 cm) |
| **Package 1 Width** | 3.937 in (10.000 cm) |
| **Package 1 Length** | 5.315 in (13.500 cm) |
| **Package weight(Lbs)** | 13.757 oz (390.000 g) |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 20 |
| **Package 2 Height** | 11.811 in (30.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 18.226 lb(US) (8.267 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **328 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **48 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.8 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.1 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **279 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **1 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **Eee2fc35-1620-4b70-b1d5-206e9240044e** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov** |
| PVC free | **Yes** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

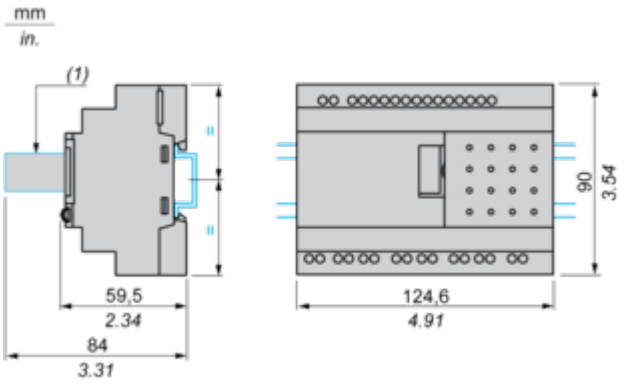
### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **0** |
| Circularity Profile | End of Life Information |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |

Dimensions Drawings

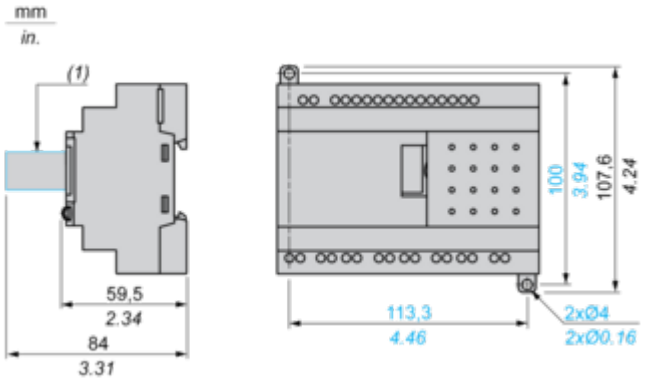
## Compact and Modular Smart Relays

### Mounting on 35 mm/1.38 in. DIN Rail



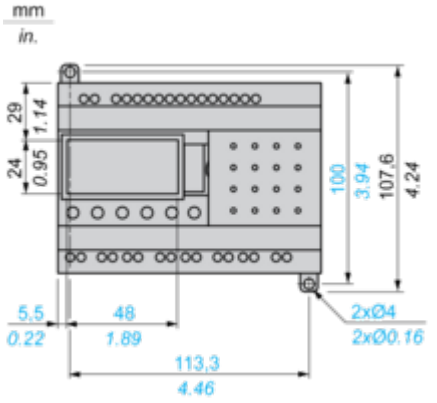

**(1)** With SR2USB01 or SR2BTC01

### Screw Fixing (Retractable Lugs)




**(1)** With SR2USB01 or SR2BTC01

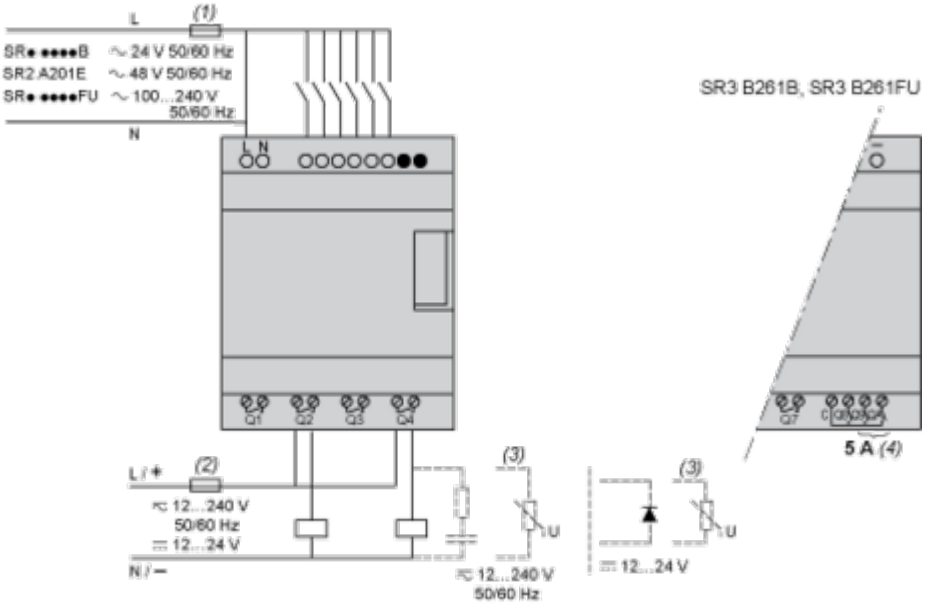
### Position of Display



Connections and Schema

## Connection of Smart Relays on AC Supply

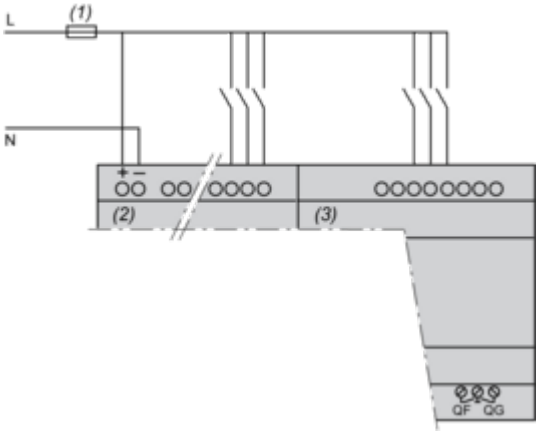
### SR••••1B, SR••••1FU




**(1)** 1 A quick-blow fuse or circuit-breaker.
**(2)** Fuse or circuit-breaker.
**(3)** Inductive load.
**(4)** Q9 and QA: 5 A (max. current in terminal C: 10 A).

### With Discrete I/O Extension Module

SR3B•••B + SR3XT•••B, SR3B•••FU + SR3XT•••FU




**(1)** 1 A quick-blow fuse or circuit-breaker.

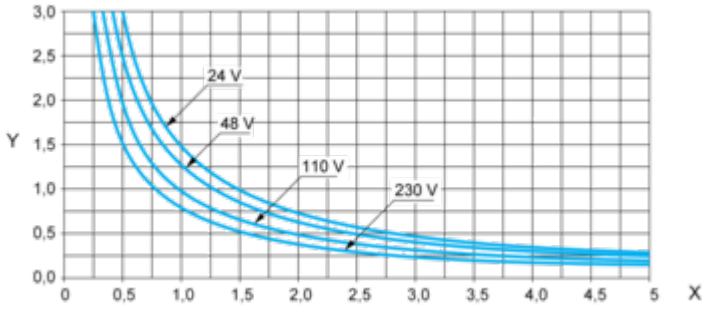
**NOTE:** QF and QG: 5 A for SR3XT141••

## Performance Curves

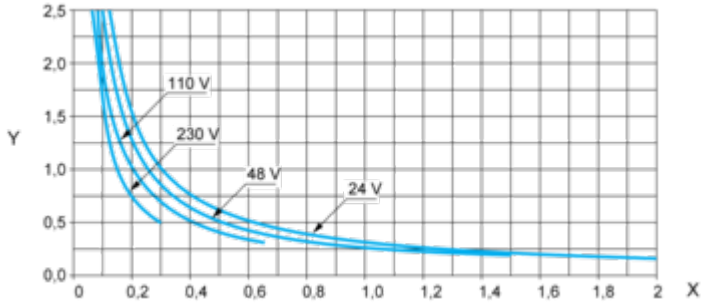
### Compact and Modular Smart Relays

### Electrical Durability of Relay Outputs

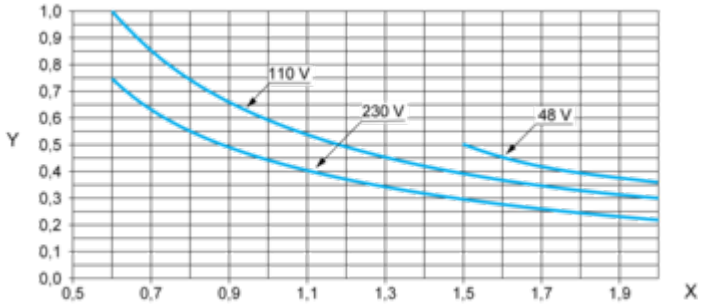
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)
AC-12 (1)




**X:** Current (A)
**Y:** Millions of operating cycles
**(1)** AC-12: switching resistive loads and opto-coupler isolated solid-state loads, cos ≥ 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.

Technical Illustration

## Dimensions

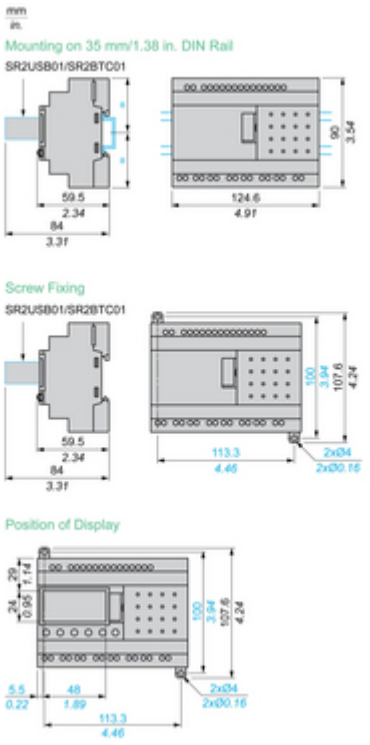
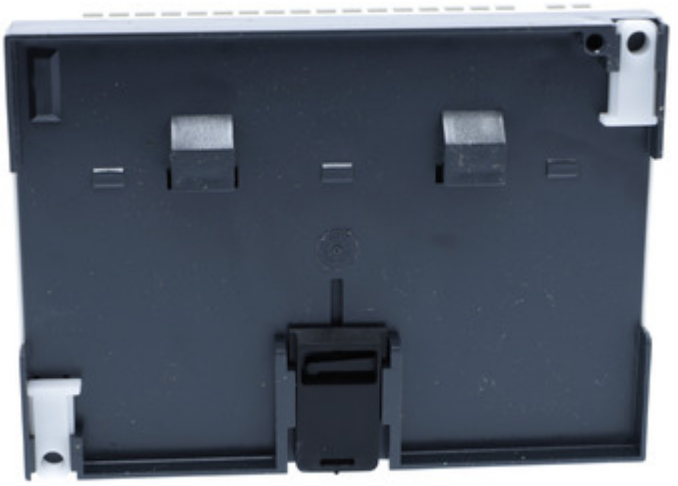
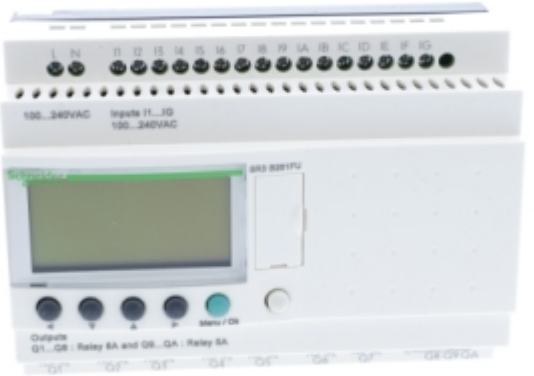


Image of product / Alternate images

**Alternative**








Schneider
Electric
Zelio
SR3 B261FU