# Product data sheet

Specifications





## compact smart relay, Zelio Logic SR2 SR3, 20 IO, 100 to 240V AC, clock, display

SR2B201FU

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 408.00 USD

### Main

Range Of Product	Zelio Logic
Product Or Component Type	Compact smart relay

## Complementary

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Local Display	With
Number Or Control Scheme Lines	0240 ladder 0500 FBD
Cycle Time	690 ms
Backup Time	10 years 77 °F (25 °C)
Clock Drift	12 min/year 32…131 °F (0…55 °C) 6 s/month 77 °F (25 °C)
Checks	Program memory on each power up
[Us] Rated Supply Voltage	100240 V AC
Supply Voltage Limits	85264 V
Supply Frequency	50/60 Hz
Maximum Supply Current	100 mA 100 V without extension) 50 mA 240 V without extension)
Power Consumption In Va	11 VA without extension
Isolation Voltage	1780 V
Protection Type	Against inversion of terminals (control instructions not executed)
Discrete Input Number	12
Discrete Input Voltage	100240 V AC
Discrete Input Current	0.6 mA
Discrete Input Frequency	5763 Hz 4753 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)
Analogue Input Number	0
Input Impedance	350 kOhm discrete input
Number Of Outputs	8 relay

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

Output Voltage Limits	530 V DC relay output) 24250 V AC
	24200 V AC
Contacts Type And Composition	NO relay output
Output Thermal Current	8 A for all 8 outputs relay output
Electrical Durability	AC-12 500000 cycles 230 V, 1.5 A relay output IEC 60947-5-1 AC-15 500000 cycles 230 V, 0.9 A relay output IEC 60947-5-1 DC-12 500000 cycles 24 V, 1.5 A relay output IEC 60947-5-1 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 le)relay output 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 50 ms ladder from state 1 to state 0)discrete input 50255 ms FBD from state 0 to state 1)discrete input 50255 ms FBD from state 1 to state 0)discrete input 10 ms from state 0 to state 1)relay output 5 ms from state 1 to state 0)relay output
Connections - Terminals	Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> AWG 25AWG 14) semi-solid Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> AWG 25AWG 14) solid Screw terminals, 1 x 0.251 x 2.5 mm <sup>2</sup> AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm <sup>2</sup> AWG 24AWG 16) solid Screw terminals, 2 x 0.252 x 0.75 mm <sup>2</sup> AWG 24AWG 18) flexible with cable end
Tightening Torque	4.43 lbf.in (0.5 N.m)
Overvoltage Category	III IEC 60664-1
Net Weight	0.84 lb(US) (0.38 kg)

## Environment

Immunity To Microbreaks	1 ms
Product Certifications	C-tick CSA GL GOST UL
Standards	IEC 61000-4-6 level 3 IEC 61000-4-11 IEC 60068-2-27 Ea IEC 61000-4-5 IEC 61000-4-5 IEC 61000-4-12 IEC 61000-4-12 IEC 61000-4-3 IEC 61000-4-4 level 3
Ip Degree Of Protection	IP20 IEC 60529 terminal block) IP40 IEC 60529 front panel)
Environmental Characteristic	EMC directive IEC 61000-6-2 EMC directive IEC 61000-6-3 EMC directive IEC 61000-6-4 EMC directive IEC 61131-2 zone B Low voltage directive IEC 61131-2
Disturbance Radiated/Conducted	Class B EN 55022-11 group 1
Pollution Degree	2 IEC 61131-2
Ambient Air Temperature For Operation	-4104 °F (-2040 °C) in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -4131 °F (-2055 °C) IEC 60068-2-1 and IEC 60068-2-2

Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Operating Altitude	6561.68 ft (2000 m)
Maximum Altitude Transport	10000.00 ft (3048 m)
Relative Humidity	95 % without condensation or dripping water

## Ordering and shipping details

Category	US1000l22378
Discount Schedule	0001
Gtin	3389110549607
Returnability	Yes
Country Of Origin	FR

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.68 in (6.8 cm)
Package 1 Width	3.94 in (10.0 cm)
Package 1 Length	5.31 in (13.5 cm)
Package 1 Weight	12.98 oz (368.0 g)
Unit Type Of Package 2	S03
Number Of Units In Package 2	20
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	17.30 lb(US) (7.846 kg)

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

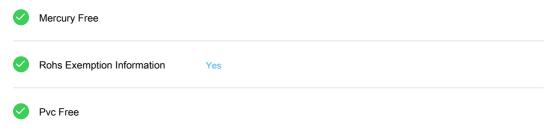
Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



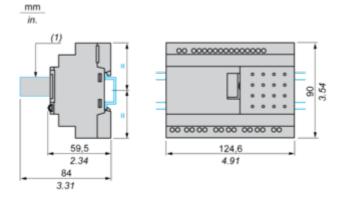
### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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

**Dimensions Drawings** 

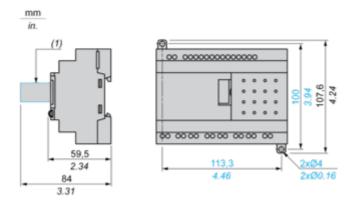
#### Compact and Modular Smart Relays

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



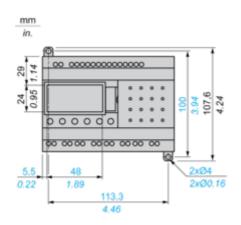
#### (1) With SR2USB01 or SR2BTC01

#### Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

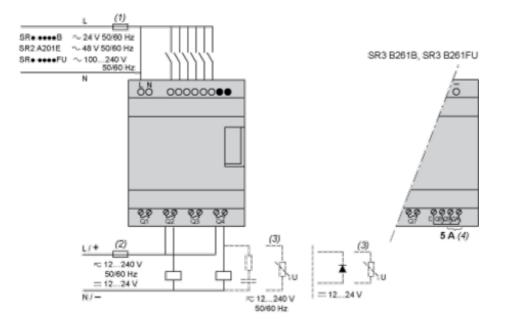
#### **Position of Display**



Connections and Schema

#### Connection of Smart Relays on AC Supply

#### SR••••1B, SR••••1FU



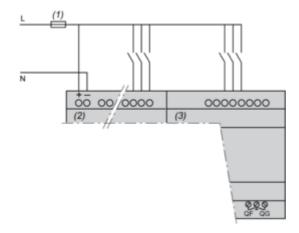
(1) 1 A quick-blow fuse or circuit-breaker.

- (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..

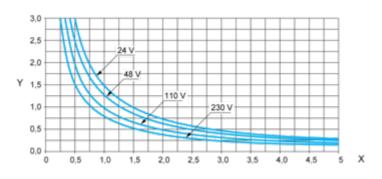
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#### Performance Curves

#### Compact and Modular Smart Relays

#### **Electrical Durability of Relay Outputs**

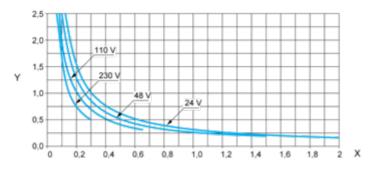
(in millions of operating cycles, conforming to IEC/EN 60947-5-1) AC-12 (1)



#### X: Current (A)

Y: Millions of operating cycles

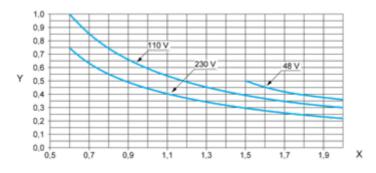
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads,  $\cos \ge 0.9$ . AC-14 (1)



#### X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads  $\leq$  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  $\geq$  72 VA, make: cos = 0.7, break: cos = 0.4.