

modular smart relay, Zelio Logic SR2 SR3, 10 IO, 24V AC, clock, display

SR3B101B

Product availability: Non-Stock - Not 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	0500 FBD 0240 ladder	
Cycle time	690 ms	
Backup time	10 years 77 °F (25 °C)	
Clock drift	12 min/year 32131 °F (055 °C) 6 s/month 77 °F (25 °C)	
Checks	Program memory on each power up	
[Us] rated supply voltage	24 V	
Supply voltage limits	20.428.8 V	
Supply frequency	50/60 Hz	
Maximum supply current	160 mA without extension) 280 mA with extensions)	
Power consumption in VA	4 VA without extension 7.5 VA with extensions	
Isolation voltage	1780 V	
Protection Type	Against inversion of terminals (control instructions not executed)	
Discrete input number	6	
Discrete input voltage	24 V AC	
Discrete input current	4.4 mA	
Discrete input frequency	5763 Hz 4753 Hz	
Voltage state 1 guaranteed	>= 14 V discrete input	
Voltage state 0 guaranteed	<= 5 V discrete input	
Current state 1 guaranteed	>= 2 mA discrete input)	
Current state 0 guaranteed	<= 0.5 mA discrete input)	
Input impedance	4.6 kOhm discrete input	
Number of Outputs	4 relay	
Output voltage limits	530 V DC relay output) 24250 V AC	

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

Contacts type and composition	NO relay output	
Output thermal current	8 A for all 4 outputs relay output 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	
Electrical durability		
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 mm² AWG 25AWG 14) semi-solid Screw terminals, 1 x 0.21 x 2.5 mm² AWG 25AWG 14) solid Screw terminals, 1 x 0.251 x 2.5 mm² AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² AWG 24AWG 16) solid Screw terminals, 2 x 0.252 x 0.75 mm² AWG 24AWG 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	0.55 lb(US) (0.25 kg)	

Environment

Immunity to microbreaks 10 ms repeated 20 times	
Product Certifications	GL
	UL
	C-tick
	CSA
	GOST
Standards	IEC 61000-4-2 level 3
	IEC 61000-4-5
	IEC 61000-4-12
	IEC 61000-4-4 level 3
	IEC 60068-2-6 Fc
	IEC 61000-4-6 level 3
	IEC 61000-4-11
	IEC 61000-4-3
	IEC 60068-2-27 Ea
IP degree of protection	IP20 IEC 60529 terminal block)
	IP40 IEC 60529 front panel)
Environmental characteristic	EMC directive conforming to IEC 61000-6-2
	EMC directive conforming to IEC 61000-6-3
	EMC directive conforming to IEC 61000-6-4
	EMC directive conforming to IEC 61131-2 zone B
	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	-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 ft (3048 m)	
Relative Humidity	95 % without condensation or dripping water	

Ordering and shipping details

Category	US1000l22378	
Discount Schedule	0001	
GTIN	3389110549935	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.60 in (6.600 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	3.94 in (10.000 cm)
Package weight(Lbs)	8.466 oz (240.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	16.936 lb(US) (7.682 kg)

Contractual warranty

Warranty 18 months



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	116
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Eee2fc35-1620-4b70-b1d5-206e9240044e
REACh Regulation	REACh Declaration
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

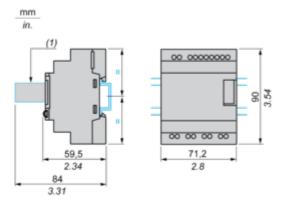
Use Again

○ Repack and remanufacture	
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

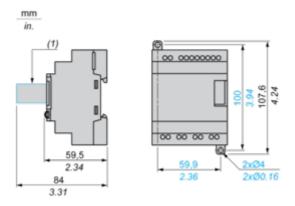
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



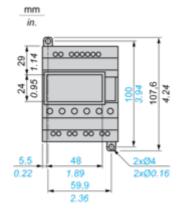
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

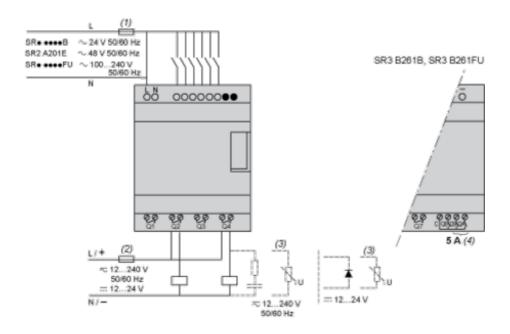
Position of Display



Connections and Schema

Connection of Smart Relays on AC Supply

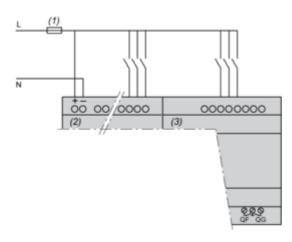
SR --- 1B, SR --- 1FU



- (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.

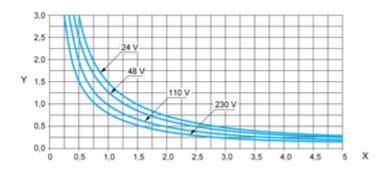
NOTE: QF and QG: 5 A for SR3XT141..

Performance Curves

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

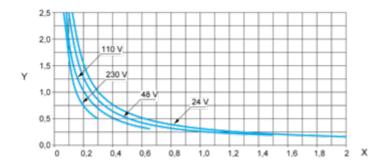
(in millions of operating cycles, conforming to IEC/EN 60947-5-1) AC-12 (1)



X: Current (A)

Y: Millions of operating cycles

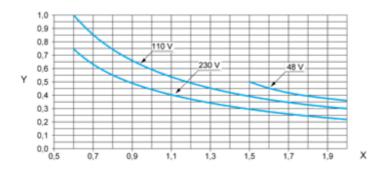
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, cos ≥ 0.9. AC-14 (1)



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.

Image of product / Alternate images

Alternative







