Product data sheet Characteristics

SR2A201FU

compact smart relay Zelio Logic - 20 I O - 100..240 V AC - no clock - display



Zelio Logic

Compact smart relay

Range of product

Product or component type

With	
690 ms	
10 years at 25 °C	
6 s/month at 25 °C 12 min/year at 055 °C	
Program memory on each power up	
100240 V AC	
85264 V	
50/60 Hz	
100 mA at 100 V (without extension) 50 mA at 240 V (without extension)	
11 VA without extension	
1780 V	
Against inversion of terminals (control instructions not executed)	
12	
100240 V AC	
0.6 mA	
4753 Hz 5763 Hz	
>= 79 V for discrete input	
<= 40 V for discrete input	
>= 0.17 mA for discrete input	
	10 years at 25 °C 6 s/month at 25 °C 12 min/year at 055 °C Program memory on each power up 100240 V AC 85264 V 50/60 Hz 100 mA at 100 V (without extension) 50 mA at 240 V (without extension) 11 VA without extension 1780 V Against inversion of terminals (control instructions not executed) 12 100240 V AC 0.6 mA 4753 Hz 5763 Hz >= 79 V for discrete input

Current state 0 guaranteed

Input impedance

Number of outputs

Output voltage limits

<= 0.5 mA for discrete input

350 kOhm (discrete input)

5...30 V DC (relay output)

8 relay output(s)

24...250 V AC

Contacts type and composition	NO for relay output
Output thermal current	8 A for all 8 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 le) for relay output 10 Hz (no load) for relay output
Mechanical durability	10000000 cycles (relay output)
[Uimp] 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 50255 ms with FBD programming (from state 0 to state 1) for discrete input 50255 ms with FBD programming (from state 1 to state 0) for discrete input
Connections - terminals	Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 25AWG 14 semi-solid Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 25AWG 14 solid Screw terminals, clamping capacity: 1 x 0.251 x 2.5 mm² AWG 24AWG 14 flexible with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm² AWG 24AWG 16 solid Screw terminals, clamping capacity: 2 x 0.252 x 0.75 mm² AWG 24AWG 18 flexible with cable end
Tightening torque	0.5 N.m
Overvoltage category	III conforming to EN/IEC 60664-1
Product weight	0.38 kg

Environment

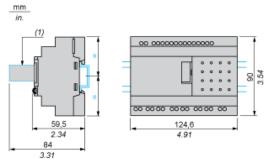
Immunity to microbreaks	<= 10 ms
Product certifications	UL GL C-Tick CSA GOST
Standards	EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-11 EN/IEC 60068-2-6 Fc EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-3 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-5
IP degree of protection	IP20 (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	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2
Ambient air temperature for storage	-4070 °C
Operating altitude	2000 m
Altitude transport	<= 3048 m
Relative humidity	95 % without condensation or dripping water

Contractual warranty

Warranty period	18 months

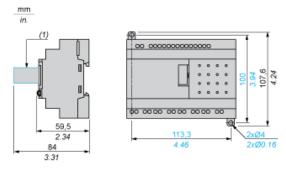
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



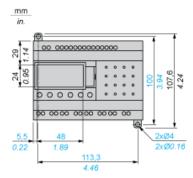
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



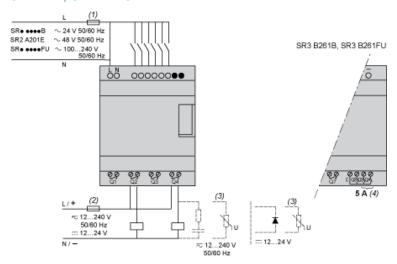
(1) With SR2USB01 or SR2BTC01

Position of Display



Connection of Smart Relays on AC Supply

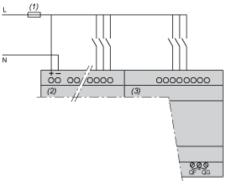
SR --- 1B, SR --- 1FU



- 1 A quick-blow fuse or circuit-breaker.
- (1) (2) (3) Fuse or circuit-breaker.
- Inductive load.
- 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 A quick-blow fuse or circuit-breaker. (1)

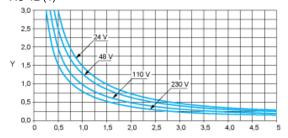
NOTE: QF and QG: 5 A for SR3XT141..

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)

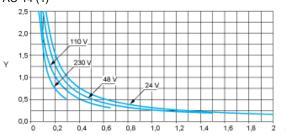


Current (A)

X: Y: Millions of operating cycles

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

AC-14 (1)

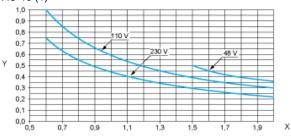


X: Current (A)

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)



Current (A)

X: Y: Millions of operating cycles

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