SR2E201FU

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

Main

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

Complementary

|	
Local display	Without
Number or 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	100 mA at 100 V (without extension) 50 mA at 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	100...240 V AC
Discrete input current	0.6 mA
Discrete input frequency	47...53 Hz 57...63 Hz
Voltage state1 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	8 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 8 outputs (relay output)

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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 Ie) 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	With
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 mm² AWG 25...14 semi-solid
	Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm² AWG 25...14 solid
	Screw terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm² AWG 24...14 flexible with cable end
	Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm² AWG 24...16 solid
	Screw terminals, clamping capacity: 2 x 0.25...2 x 0.75 mm² AWG 24...18 flexible with cable end
Tightening torque	0.5 N.m
Overvoltage category	III conforming to EN/IEC 60664-1
Product weight	0.35 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

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Compact and Modular Smart Relays

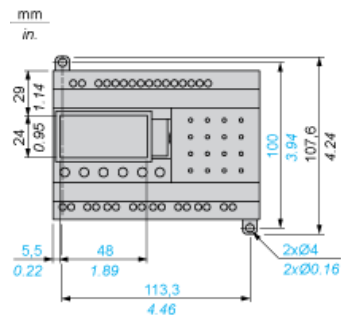### Mounting on 35 mm/1.38 in. DIN Rail
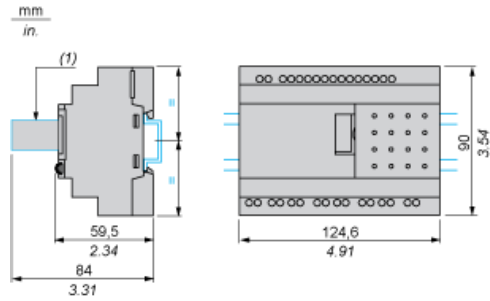
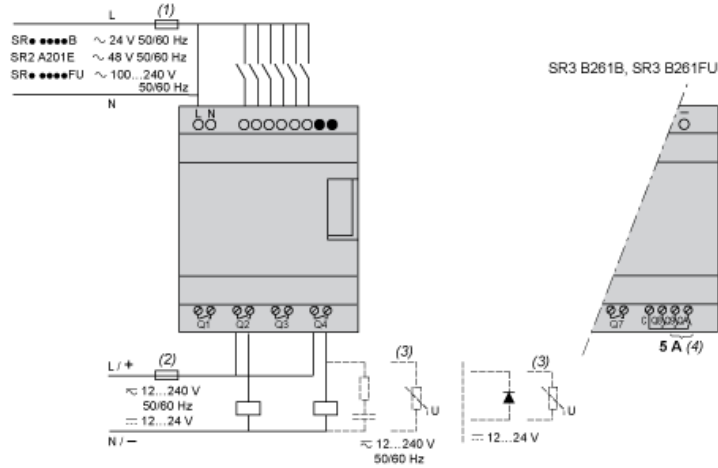(1)   With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)
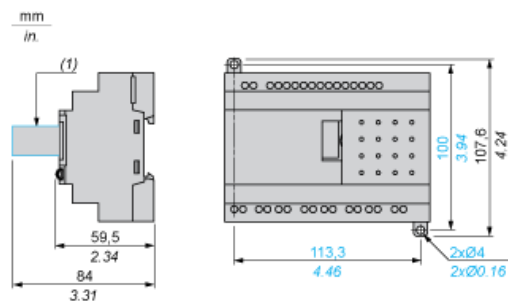
(1)   With SR2USB01 or SR2BTC01
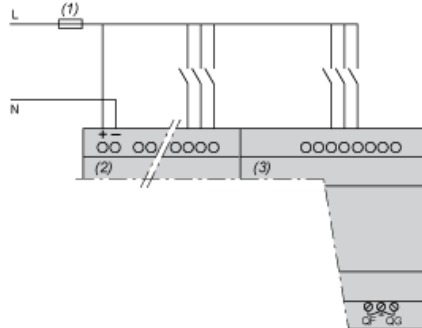
Position of Display

Connection of Smart Relays on AC Supply

SR••••1B, SR••••1FU

SR• ••••B   ∿ 24 V 50/60 Hz
SR2 A201E   ∿ 48 V 50/60 Hz
SR• ••••FU   ∿ 100...240 V
                        50/60 Hz

SR3 B261B, SR3 B261FU

5 A (4)

(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.

QF and QG: 5 A for SR3XT141••

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Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

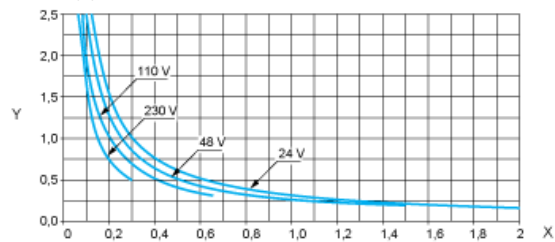(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

AC-12 (1)
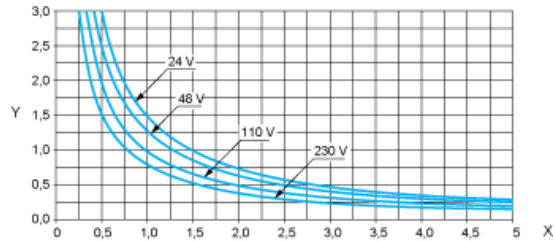
X: Current (A)
Y: Millions of operating cycles
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, cos ≥ 0.9.

AC-14 (1)
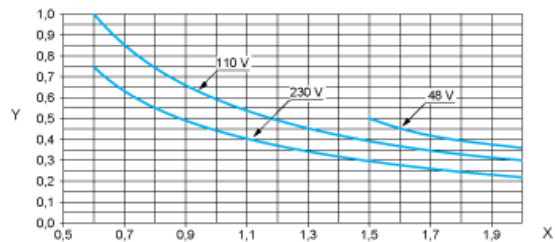

X: Current (A)
Y: Millions of operating cycles
(1) AC-14: switching small electromagnetic loads ≤ 72 VA, make: cos = 0.3, break: cos = 0.3.

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.