Product data sheet Characteristics

SR2A101FU

compact smart relay Zelio Logic - 10 I O - 100..240 V AC - no clock - display

Product availability: Stock - Normally stocked in distribution facility

Price*: 258.00 USD



Main Commercial Status Commercialised Range of product Zelio Logic Product or component Compact smart relay type

Complementary

Local display	With
Number or control scheme lines	120 with ladder programming <= 200 with FBD programming
Cycle time	690 ms
Backup time	10 yearsat 77 °F (25 °C)
Clock drift	6 s/monthat 77 °F (25 °C) 12 min/yearat 32131 °F (055 °C)
Checks	Program memory on each power up
[Us] rated supply voltage	100240 V
Supply voltage limits	85264 V
Supply frequency	50/60 Hz
Supply current	80 mAat 100 V (without extension) 30 mAat 240 V (without extension)
Power consumption in VA	7 VA without extension
Isolation voltage	1780 V
Protection type	Against inversion of terminals (control instructions not executed)
Discrete input number	6
Discrete input voltage	100240 V AC
Discrete input current	0.6 mA
Discrete input frequency	4753 Hz 5763 Hz
Voltage state1 guaranteed	>= 79 Vfor discrete input
Voltage state 0 guaranteed	<= 40 Vfor discrete input
Current state 1 guaranteed	> 0.17 mAfor discrete input
Current state 0 guaranteed	< 0.5 mAfor discrete input
Input impedance	350 kOhm (discrete input)
Number of outputs	4 relay output(s)
Output voltage limits	24250 V AC 530 V DC (relay output)
Contacts type and composition	NO relay output
Output thermal current	8 A for all 4 outputs (relay output)

Electrical durability	500000 cycles DC-13at 24 V, 0.6 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-12at 24 V, 1.5 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-15at 230 V, 0.9 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-12at 230 V, 1.5 Afor relay output conforming to EN/IEC 60947-5-1
Switching capacity in mA	>= 10 mAat 12 V (relay output)
Operating rate in Hz	10 Hz (no load)for relay output 0.1 Hz (at le)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	5 ms (from state 1 to state 0) relay output 10 ms (from state 0 to state 1) relay output 50255 ms with FBD programming (from state 1 to state 0) discrete input 50255 ms with FBD programming (from state 0 to state 1) discrete input 50 ms with ladder programming (from state 1 to state 0) discrete input 50 ms with ladder programming (from state 0 to state 1) discrete input
Connections - terminals	Screw terminals, clamping capacity: 2 x 0.252 x 0.75 mm² AWG 24AWG 18 flexible with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm² AWG 24AWG 16 solid Screw terminals, clamping capacity: 1 x 0.251 x 2.5 mm² AWG 24AWG 14 flexible with cable end Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 25AWG 14 solid Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 25AWG 14 semisolid
Tightening torque	4.42 lbf.in (0.5 N.m)
Overvoltage category	III conforming to EN/IEC 60664-1
Product weight	0.55 lb(US) (0.25 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	IP40 (front panel) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529
Environmental characteristic	Low voltage directive conforming to EN/IEC 61131-2 EMC directive conforming to EN/IEC 61131-2 zone B EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-2
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	-4131 °F (-2055 °C) conforming to IEC 60068-2-1 and IEC 60068-2-2 -4104 °F (-2040 °C) in non-ventilated enclosure conforming to 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)
Altitude transport	<= 10000 ft (3048 m)
Relative humidity	95 % without condensation or dripping water

Ordering and shipping details

Category	22378 - SR2,3 ZELIO 2 RELAYS
Discount Schedule	I
GTIN	00785901422488
Nbr. of units in pkg.	1
Product availability	Stock - Normally stocked in distribution facility
Returnability	Υ
Country of origin	FR

Contractual warranty

Warranty period	18 months

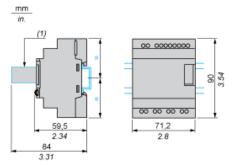


Product data sheet Dimensions Drawings

SR2A101FU

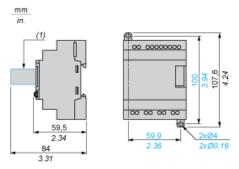
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



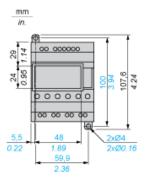
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



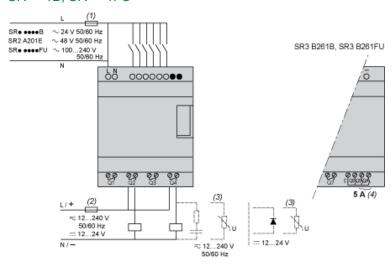
(1) With SR2USB01 or SR2BTC01

Position of Display



Connection of Smart Relays on AC Supply

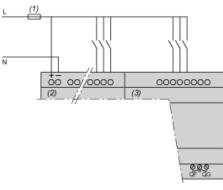
SR••••1B, SR••••1FU



- (1) 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.

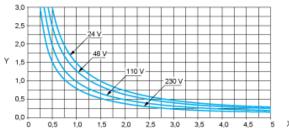
QF and QG: 5 A for SR3XT141..

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)

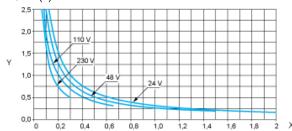


X: Current (A)

Y: Millions of operating cycles

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

AC-14 (1)

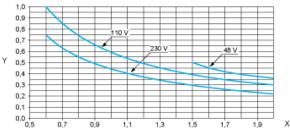


X: Current (A)

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.