Product datasheet

Specifications





compact smart relay Zelio Logic -20 I O - 24 V AC - clock - no

display Local distributor code:

389838294

SR2E201B

EAN Code: 3389110549843

Main

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

Complementary

Complementary		
Local Display	Without	
Number Or Control Scheme Lines	0240 with ladder programming 0500 with FBD programming	
Cycle Time	690 ms	
Backup Time	10 years at 25 °C	
Clock Drift	12 min/year at 055 °C 6 s/month at 25 °C	
Checks	Program memory on each power up	
[Us] Rated Supply Voltage	24 V AC	
Supply Voltage Limits	20.428.8 V	
Supply Frequency	50/60 Hz	
Maximum Supply Current	233 mA (without extension)	
Power Consumption In Va	6 VA without extension	
Isolation Voltage	1780 V	
Protection Type	Against inversion of terminals (control instructions not executed)	
Discrete Input Number	12	
Discrete Input Voltage	24 V AC	
Discrete Input Current	4.4 mA	
Discrete Input Frequency	4753 Hz 5763 Hz	
Voltage State 1 Guaranteed	>= 14 V for discrete input	
Voltage State 0 Guaranteed	<= 5 V for discrete input	
Current State 1 Guaranteed	>= 2 mA (discrete input)	
Current State 0 Guaranteed	<= 0.5 mA (discrete input)	
Analogue Input Number	0	
Input Impedance	4.6 kOhm for discrete input	
Number Of Outputs	8 relay	
Output Voltage Limits	530 V DC (relay output) 24250 V AC	

Contacts Type And Composition	NO for relay output	
Output Thermal Current	8 A for all 8 outputs for relay output	
Electrical Durability	AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 DC-13: 500000 cycles 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 for relay output	
[Uimp] Rated Impulse Withstand Voltage	4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1	
Clock	With	
Response Time	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 10 ms (from state 0 to state 1) for relay output 5 ms (from state 1 to state 0) for relay output	
Connections - Terminals	Screw terminals, 1 x 0.21 x 2.5 mm ² (AWG 25AWG 14) semi-solid Screw terminals, 1 x 0.21 x 2.5 mm ² (AWG 25AWG 14) solid Screw terminals, 1 x 0.251 x 2.5 mm ² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm ² (AWG 24AWG 16) solid Screw terminals, 2 x 0.252 x 0.75 mm ² (AWG 24AWG 18) flexible with cable end	
Tightening Torque	0.5 N.m	
Overvoltage Category	III conforming to EN/IEC 60664-1	
Net Weight	0.35 kg	

Environment

Immunity To Microbreaks	10 ms repeated 20 times
Product Certifications	UL CSA C-Tick GL GOST
Standards	EN/IEC 61000-4-12 EN/IEC 61000-4-11 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-3 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-4 level 3 EN/IEC 60068-2-6 Fc
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
Maximum Altitude Transport	3048 m
Relative Humidity	95 % without condensation or dripping water

Packing Units

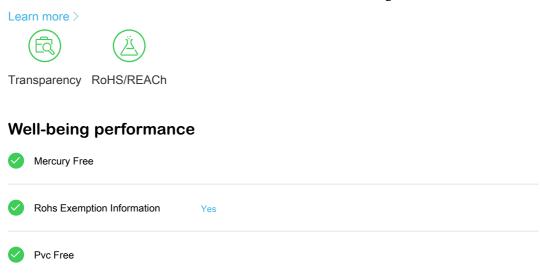
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.800 cm
Package 1 Width	10.000 cm
Package 1 Length	13.500 cm
Package 1 Weight	328.000 g
Unit Type Of Package 2	\$03
Number Of Units In Package 2	20
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.044 kg

Contractual warranty

Warranty

18 months

Green PremiumTM 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-CO₂ products.



Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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

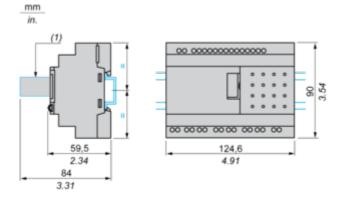
Product datasheet SF

SR2E201B

Dimensions Drawings

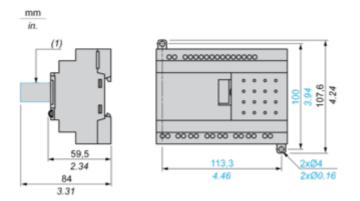
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



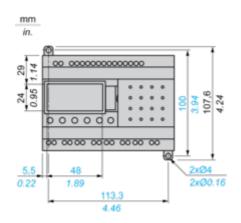
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

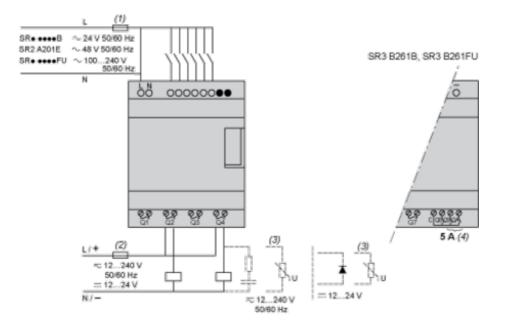
Position of Display



Connections and Schema

Connection of Smart Relays on AC Supply

SR••••1B, SR••••1FU

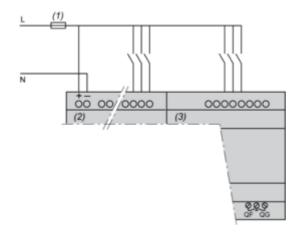


(1) 1 A quick-blow fuse or circuit-breaker.

- (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.

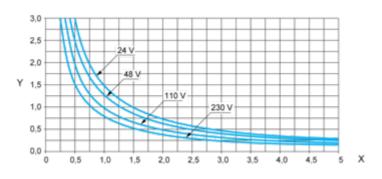
NOTE: QF and QG: 5 A for SR3XT141.

Performance Curves

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

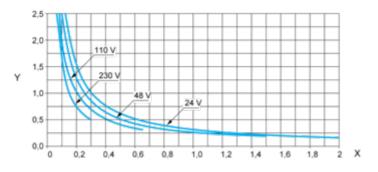
(in millions of operating cycles, conforming to IEC/EN 60947-5-1) AC-12 (1) $\,$



X: Current (A)

Y: Millions of operating cycles

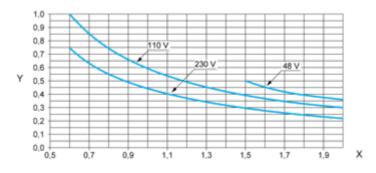
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, $\cos \ge 0.9$. AC-14 (1)



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 ≥ 72 VA, make: cos = 0.7, break: cos = 0.4.