Product data sheet Characteristics

SR3B101FU

modular smart relay, Zelio Logic SR2 SR3, 10 IO, 100 to 240V AC, clock, display





Main

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

Complementary

With	
0500 with FBD programming 0240 with ladder programming	
690 ms	
10 years at 25 °C	
12 min/year at 055 °C 6 s/month at 25 °C	
Program memory on each power up	
100240 V	
85264 V	
50/60 Hz	_
30 MA at 240 V (without extension) 40 MA at 240 V (with extensions) 80 MA at 100 V (with extensions) 80 mA at 100 V (without extension)	
12 VA with extensions 7 VA without extension	
1780 V	
Against inversion of terminals (control instructions not executed)	
6	_
100240 V AC	_
0.6 mA	
5763 Hz 4753 Hz	
>= 79 V for discrete input	
<= 40 V for discrete input	_
>= 0.17 mA (discrete input)	
<= 0.5 mA (discrete input)	
350 kOhm for discrete input	
4 relay	
530 V DC (relay output) 24250 V AC	
NO for relay output	
8 A for all 4 outputs for relay output	_
	0500 with FBD programming 0240 with ladder programming 690 ms 10 years at 25 °C 12 min/year at 055 °C 6 s/month at 25 °C Program memory on each power up 100240 V 85264 V 50/60 HZ 30 MA at 240 V (without extension) 40 MA at 240 V (with extensions) 80 MA at 100 V (with extensions) 80 mA at 100 V (without extension) 12 VA with extensions 7 VA without extension 1780 V Against inversion of terminals (control instructions not executed) 6 100240 V AC 0.6 mA 5763 Hz 4753 Hz >= 79 V for discrete input <= 40 V for discrete input <= 40 V for discrete input >= 0.17 mA (discrete input) 350 kOhm for discrete input 4 relay 530 V DC (relay output) 24250 V AC NO 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 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	0.5 N.m	
Overvoltage category	III conforming to EN/IEC 60664-1	
Product weight	0.25 kg	

Environment

Immunity to microbreaks	10 ms		
Product certifications	GOST C-Tick CSA UL GL		
Standards	EN/IEC 61000-4-12 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-11 EN/IEC 60068-2-6 Fc EN/IEC 60068-2-7 Ea		
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

0	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	10 cm
Package 1 Length	9 cm
Package 1 Weight	242 g
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.738 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	© REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	
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	

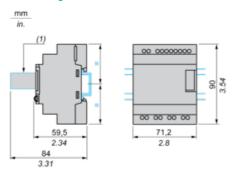
Contractual warranty

Contraction warranty				
Warranty	18 months			

SR3B101FU

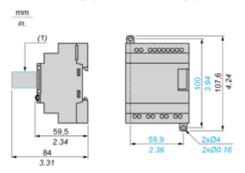
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



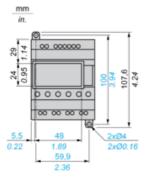
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



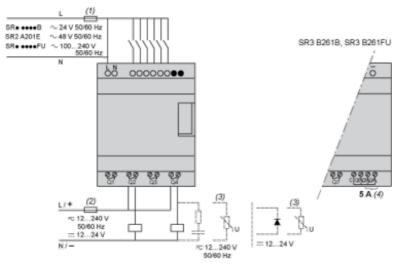
(1) With SR2USB01 or SR2BTC01

Position of Display



Connection of Smart Relays on AC Supply

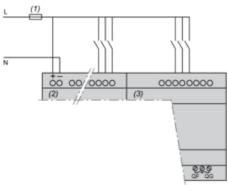
SR••••1B, SR••••1FU



- (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.

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

Product data sheet Performance Curves

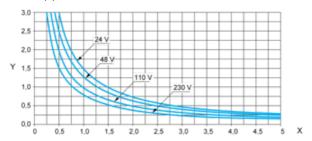
SR3B101FU

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)

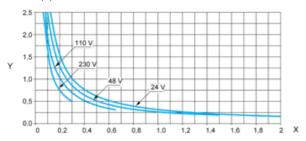


X: Current (A)

Y: Millions of operating cycles

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

AC-14 (1)

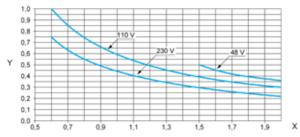


X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads \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.