# Product data sheet Characteristics

## SR3B101FU

modular smart relay Zelio Logic - 10 I O - 100..240 V AC - clock - display

Product availability: Stock - Normally stocked in distribution facility

Price\* : 292.00 USD



#### Main

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

#### Complementary

Complementary		Ť	
Local display	With	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Number or control scheme lines	0500 with FBD programming 0240 with ladder 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	7	
Supply frequency	50/60 Hz		
Supply current	30 mAat 240 V (without extension) 40 mAat 240 V (with extensions) 80 mAat 100 V (with extensions) 80 mAat 100 V (without extension)	of the state of th	
Power consumption in VA	12 VA with extensions 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 state 1 guaranteed	>= 79 Vfor discrete input		
Voltage state 0 guaranteed	<= 40 Vfor discrete input		
Current state 1 guaranteed	>= 0.17 mA for discrete input	F	
Current state 0 guaranteed	<= 0.5 mA for discrete input	in the state of th	

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 AC-12at 230 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 DC-12at 24 V, 1.5 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-13at 24 V, 0.6 Afor relay output conforming to EN/IEC 60947-5-1		
Switching capacity in mA	>= 10 mAat 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	With		
Response time	10 ms (from state 0 to state 1) relay output 5 ms (from state 1 to state 0) relay output 50 ms with ladder programming (from state 0 to state 1) discrete input 50 ms with ladder programming (from state 1 to state 0) discrete input 50255 ms with FBD programming (from state 0 to state 1) discrete input 50255 ms with FBD programming (from state 1 to state 0) discrete input		
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 w 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 wend			
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

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	-4104 °F (-2040 °C) in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2		
	-4131 °F (-2055 °C) 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	00785901422648		
Nbr. of units in pkg.	1		
Package weight(Lbs)	0.5300000000000003		
Returnability	Υ		
Country of origin	FR		

#### Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
More information For more information go to www.p65warnings.ca.gov	

#### Contractual warranty

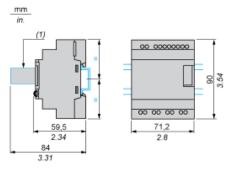
Warranty period	18 months	

# Product data sheet Dimensions Drawings

## SR3B101FU

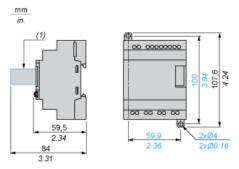
#### Compact and Modular Smart Relays

#### Mounting on 35 mm/1.38 in. DIN Rail



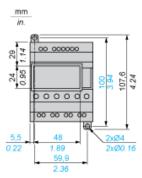
(1) With SR2USB01 or SR2BTC01

#### Screw Fixing (Retractable Lugs)



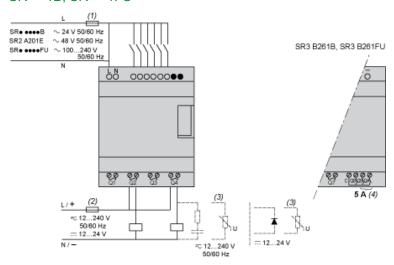
(1) With SR2USB01 or SR2BTC01

#### Position of Display



#### Connection of Smart Relays on AC Supply

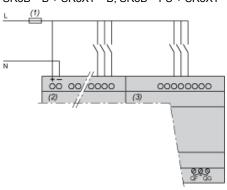
#### SR --- 1B, SR --- 1FU



- (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**

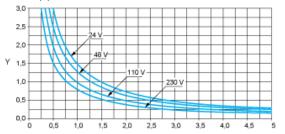
### SR3B101FU

#### 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)

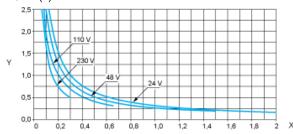


Current (A)

X: Y: Millions of operating cycles

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

#### AC-14 (1)

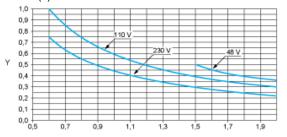


X: Current (A)

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)



Current (A)

X: Y: Millions of operating cycles

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