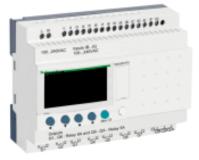
Product data sheet Characteristics

SR3B261FU

modular smart relay Zelio Logic - 26 I O -100..240 V AC - clock - display



Main

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

Complementary

57° 20 21		
Main		
Range of product	Zelio Logic	
Product or component type	Modular smart relay	
Complementary		
Local display	With	
Number or control scheme lines	0500 with FBD programming	
	0240 with ladder programming	
Cycle time	690 ms	
Backup time	10 years at 25 °C	
Clock drift	6 s/month at 25 °C 12 min/year at 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	100 mA at 100 V (without extension) 50 mA at 240 V (without extension) 60 mA at 240 V (with extensions) 80 mA at 100 V (with extensions)	
Power consumption in VA	12 VA without extension 17 VA with extensions	
Isolation voltage	1780 V	
Protection type	Against inversion of terminals (control instructions not executed)	
Discrete input number	16	
Discrete input voltage	100240 V AC	
Discrete input current	0.6 mA	
Discrete input frequency	4753 Hz 5763 Hz	
Voltage state 1 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	10 relay output(s)
Output voltage limits	24250 V AC 530 V DC (relay output)
Contacts type and composition	NO for relay output
Output thermal current	5 A for 2 outputs (relay output) 8 A for 8 outputs (relay output)
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 le) for relay output 10 Hz (no load) for relay output
Mechanical durability	1000000 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 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
Connections - terminals	Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm ² AWG 25AWG 14 semi-solid Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm ² AWG 25AWG 14 solid Screw terminals, clamping capacity: 1 x 0.251 x 2.5 mm ² AWG 24AWG 14 flexible with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm ² AWG 24AWG 16 solid Screw terminals, clamping capacity: 2 x 0.252 x 0.75 mm ² AWG 24AWG 18 flexible with cable
	end
Tightening torque	
Tightening torque Overvoltage category	end

Environment

Immunity to microbreaks	<= 10 ms
Product certifications	C-Tick UL GL CSA GOST
Standards	EN/IEC 60068-2-6 Fc EN/IEC 60068-2-27 Ea EN/IEC 61000-4-5 EN/IEC 61000-4-12 EN/IEC 61000-4-11 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-3
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	-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
Altitude transport	<= 3048 m
Relative humidity	95 % without condensation or dripping water

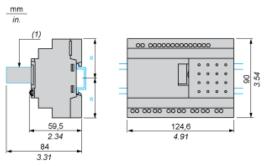
18 months

Contractual warranty

Warranty period

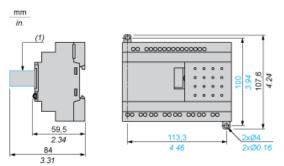
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



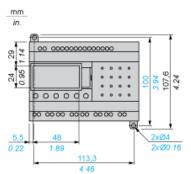
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

Position of Display

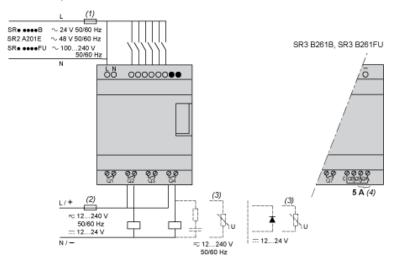


SR3B261FU

SR3B261FU

Connection of Smart Relays on AC Supply

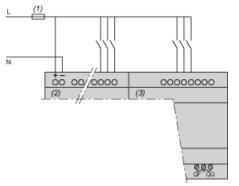
SR••••1B, SR••••1FU



- (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



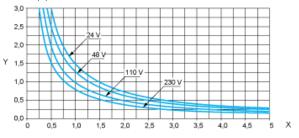
(1) 1 A quick-blow fuse or circuit-breaker. NOTE: QF and QG: 5 A for SR3XT141•• SR3B261FU

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

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



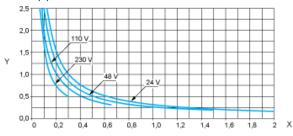


X: Current (A)

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)

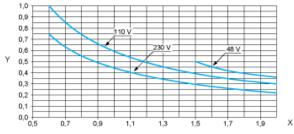


X: Current (A)

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 \geq 72 VA, make: cos = 0.7, break: cos = 0.4.