Specifications



Discrete I/O extension module, Zelio Logic, 14 I/O, 24 V AC

SR3XT141B

Main

Main		
Range Of Product	Zelio Logic	
Product Or Component Type	Discrete I/O extension module	
• • •		
Complementary		
Number Or Control Scheme Lines	120 with ladder programming	
Cycle Time	690 ms	
Backup Time	10 years at 25 °C	
Clock Drift	12 min/year at 055 °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	
Reverse Polarity Protection	With	
Discrete Input Number	8	
Discrete Input Voltage	24 V AC	
Discrete Input Current	4.4 mA	
Discrete Input Frequency	5763 Hz 4753 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)	
Input Impedance	4.6 kOhm for discrete input	
Number Of Outputs	6 relay	
Output Voltage Limits	530 V DC (relay output) 24250 V AC	
Contacts Type And Composition	NO for relay output	
Output Thermal Current	5 A for 2 outputs for relay output 8 A for 4 outputs for relay output	
Electrical Durability	AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to IEC 60947-5-1 AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1 DC-13: 500000 cycles at 24 V, 0.6 A for relay output conforming to IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to 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 for relay output	
[Uimp] Rated Impulse Withstand Voltage	4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1	
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 0.251 x 2.5 mm ² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.252 x 0.75 mm ² (AWG 24AWG 18) flexible with cable end 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, 2 x 0.22 x 1.5 mm ² (AWG 24AWG 16) solid	
Tightening Torque	0.5 N.m	
Overvoltage Category	III conforming to IEC 60664-1	
Net Weight	0.22 kg	

Environment

Product Certifications	C-Tick GL CSA UL GOST	
Standards	IEC 61000-4-5 IEC 61000-4-4 level 3 IEC 61000-4-6 level 3 IEC 60068-2-27 Ea IEC 61000-4-11 IEC 61000-4-3 IEC 61000-4-2 level 3 IEC 60068-2-6 Fc IEC 61000-4-12	
Ip Degree Of Protection	IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529	
Environmental Characteristic	EMC directive conforming to IEC 61000-6-2 EMC directive conforming to IEC 61000-6-3 EMC directive conforming to IEC 61000-6-4 EMC directive conforming to IEC 61131-2 zone B Low voltage directive conforming to IEC 61131-2	
Disturbance Radiated/Conducted	Class B conforming to EN 55022-11 group 1	
Pollution Degree	2 conforming to 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	6.8 cm

Package 1 Width	9.0 cm
Package 1 Length	10.0 cm
Package 1 Weight	201.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	30
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.506 kg

Contractual warranty

Warranty

18 months

Sustainability

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.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



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Transparency RoHS/REACh

Well-being performance



Certifications & Standards

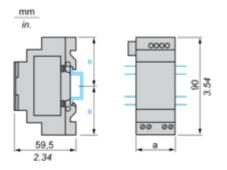
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	
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	

Product data sheet

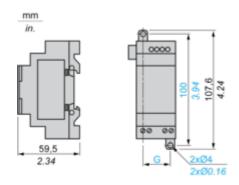
Dimensions Drawings

I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



Screw Fixing (Retractable Lugs)

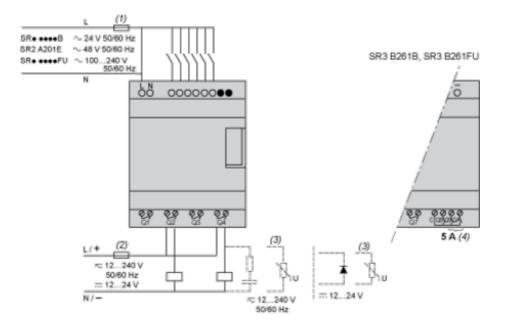


SR3	a (mm/in.)	G (mm/in.)
XT61••	35 / 1.38	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

Connections and Schema

Connection of Smart Relays on AC Supply

SR••••1B, SR••••1FU



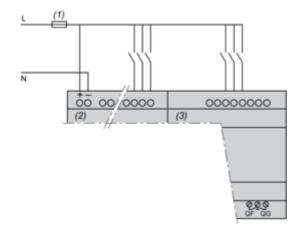
(1) 1 A quick-blow fuse or circuit-breaker.

- (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.

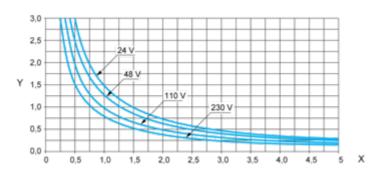
NOTE: QF and QG: 5 A for SR3XT141..

Performance Curves

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

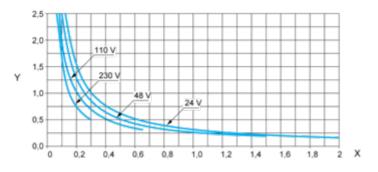
(in millions of operating cycles, conforming to IEC/EN 60947-5-1) AC-12 (1) $\,$



X: Current (A)

Y: Millions of operating cycles

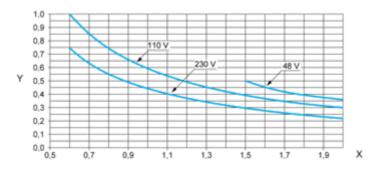
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, $\cos \ge 0.9$. AC-14 (1)



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