

Product data sheet

Specifications



discrete IO extension module, Zelio Logic SR2 SR3, 14 IO, 100 to 240V AC

SR3XT141FU

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Zelio Logic
Product or Component Type	Discrete I/O extension module

Complementary

Number of control scheme lines	120 ladder
Cycle time	6...90 ms
Backup time	10 years 77 °F (25 °C)
Clock drift	12 min/year 32...131 °F (0...55 °C)
Checks	Program memory on each power up
[Us] rated supply voltage	100...240 V AC
Supply voltage limits	85...264 V
Supply frequency	50/60 Hz
Reverse polarity protection	With
Discrete input number	8
Discrete input voltage	100...240 V AC
Discrete input current	0.6 mA
Discrete input frequency	57...63 Hz 47...53 Hz
Voltage state 1 guaranteed	>= 79 V discrete input
Voltage state 0 guaranteed	<= 40 V discrete input
Current state 1 guaranteed	>= 0.17 mA discrete input)
Current state 0 guaranteed	<= 0.5 mA discrete input)
Input impedance	350 kOhm discrete input
Number of Outputs	6 relay
Output voltage limits	5...30 V DC relay output) 24...250 V AC
Contacts type and composition	NO relay output
Output thermal current	5 A for 2 outputs relay output 8 A for 4 outputs relay output
Electrical durability	AC-15 500000 cycles 230 V, 0.9 A relay output IEC 60947-5-1 AC-12 500000 cycles 230 V, 1.5 A relay output IEC 60947-5-1 DC-13 500000 cycles 24 V, 0.6 A relay output IEC 60947-5-1 DC-12 500000 cycles 24 V, 1.5 A relay output IEC 60947-5-1
Switching capacity in mA	>= 10 mA 12 V relay output)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Operating rate in Hz	0.1 Hz at 1e)relay output 10 Hz no load)relay output
Mechanical durability	10000000 cycles relay output
[Uiimp] rated impulse withstand voltage	4 kV EN/IEC 60947-1 and EN/IEC 60664-1
Response time	50 ms ladder from state 0 to state 1)discrete input 50 ms ladder from state 1 to state 0)discrete input 50...255 ms FBD from state 0 to state 1)discrete input 50...255 ms FBD from state 1 to state 0)discrete input 10 ms from state 0 to state 1)relay output 5 ms from state 1 to state 0)relay output
Connections - terminals	Screw terminals, 1 x 0.25...1 x 2.5 mm ² AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.25...2 x 0.75 mm ² AWG 24...AWG 18) flexible with cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² AWG 25...AWG 14) semi-solid Screw terminals, 1 x 0.2...1 x 2.5 mm ² AWG 25...AWG 14) solid Screw terminals, 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16)
Tightening torque	4.4 lbf.in (0.5 N.m)
Overvoltage category	III conforming to IEC 60664-1
Product Weight	0.49 lb(US) (0.22 kg)

Environment

Product Certifications	C-tick GOST CSA GL UL
Standards	IEC 61000-4-6 level 3 IEC 61000-4-2 level 3 IEC 61000-4-4 level 3 IEC 60068-2-27 Ea IEC 61000-4-5 IEC 61000-4-11 IEC 60068-2-6 Fc IEC 61000-4-12 IEC 61000-4-3
IP degree of protection	IP20 IEC 60529 terminal block) IP40 IEC 60529 front panel)
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 EN 55022-11 group 1
Pollution degree	2 IEC 61131-2
Ambient air temperature for operation	-4...104 °F (-20...40 °C) in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -4...131 °F (-20...55 °C) IEC 60068-2-1 and IEC 60068-2-2
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Operating altitude	6561.68 ft (2000 m)
Maximum altitude transport	10000 ft (3048 m)
Relative Humidity	95 % without condensation or dripping water

Ordering and shipping details

Category	US1000I22378
Discount Schedule	0001
GTIN	3389110550160

Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.68 in (6.800 cm)
Package 1 Width	3.46 in (8.800 cm)
Package 1 Length	3.94 in (10.000 cm)
Package weight(Lbs)	7.160 oz (203.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	14.498 lb(US) (6.576 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	236
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Environmental Disclosure	Product Environmental Profile
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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SCIP Number	Ab7a5df6-4d23-4fb1-96de-7c15d64130aa
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REACH Regulation	REACH Declaration
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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
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PVC free	Yes
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Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
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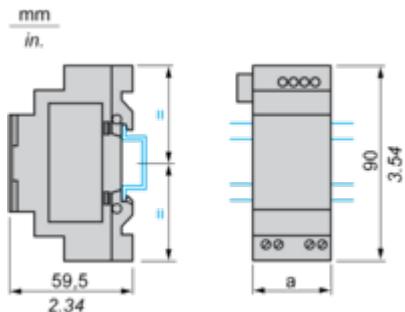
Take-back	No
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WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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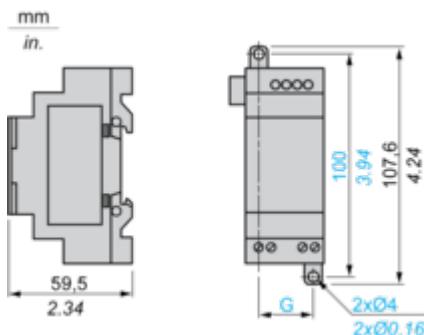
Dimensions Drawings

I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail

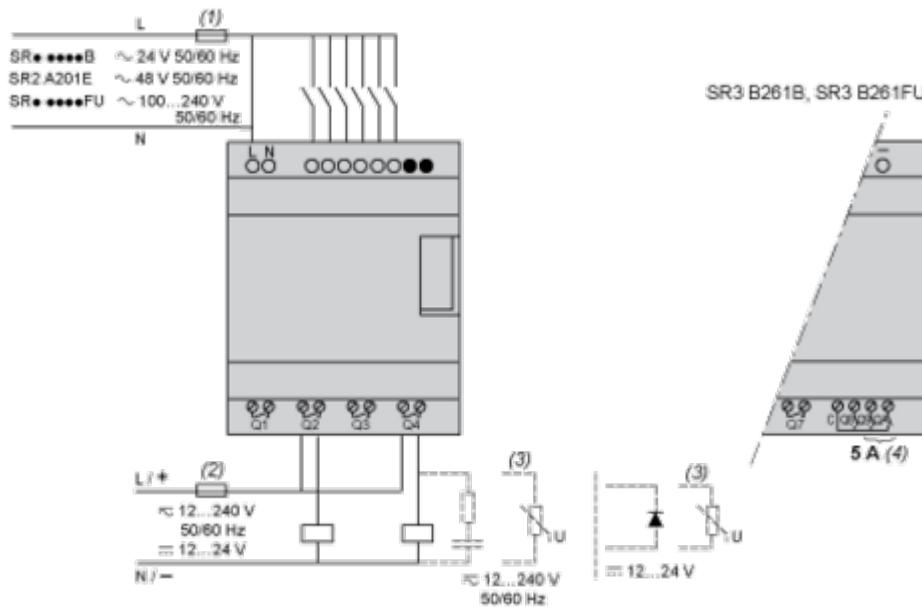


Screw Fixing (Retractable Lugs)

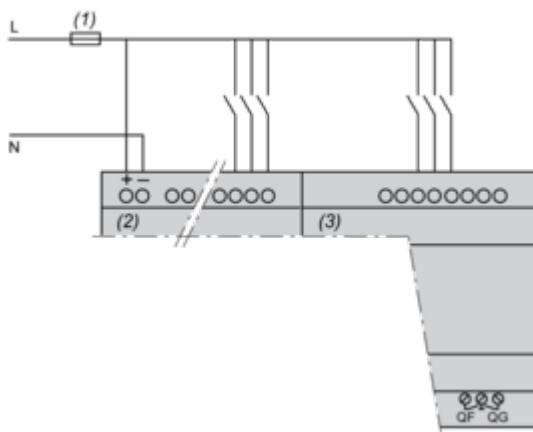


SR3	a (mm/in.)	G (mm/in.)
XT61..	35 / 1.38	25 / 0.98
XT101..	72 / 2.83	60 / 2.36
XT141..	72 / 2.83	60 / 2.36

Connections and Schema

Connection of Smart Relays on AC Supply**SR****1B, SR****1FU****With Discrete I/O Extension Module**

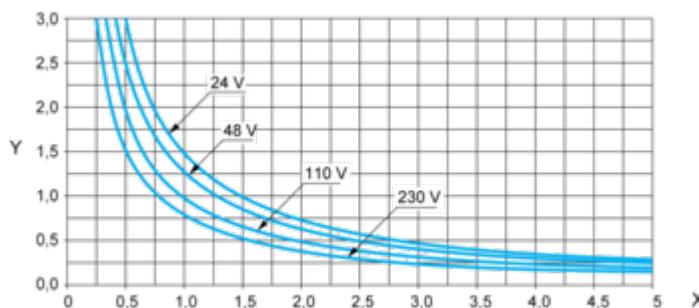
SR3B...B + SR3XT...B, SR3B...FU + SR3XT...FU

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

Performance Curves

Compact and Modular Smart Relays**Electrical Durability of Relay Outputs**

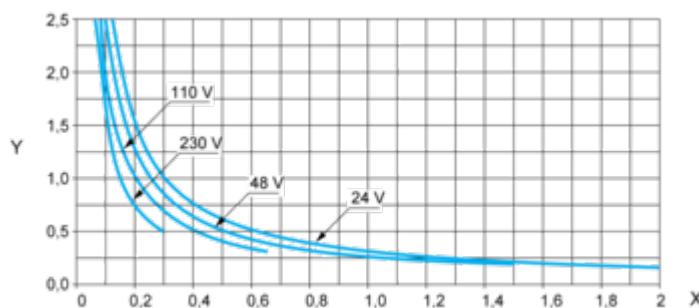
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)
AC-12 (1)



X: Current (A)

Y: Millions of operating cycles

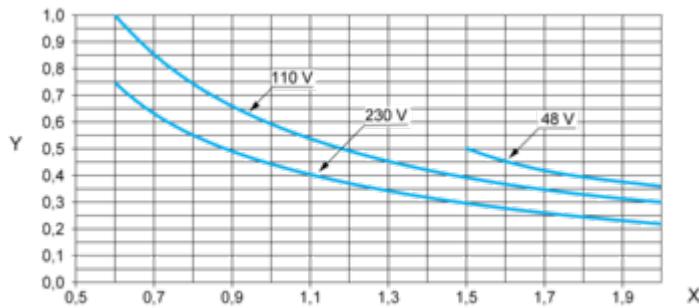
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, $\cos \geq 0.9$.
AC-14 (1)



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)



X: Current (A)

Y: Millions of operating cycles

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

Image of product / Alternate images

Alternative



