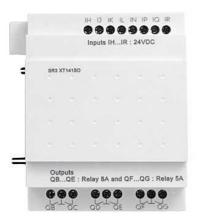
Product data sheet Characteristics

SR3XT141JD

discrete I/O extension module - 14 I O - 12 V DC - for Zelio Logic



Main

Range of product	Zelio Logic
Product or component type	Discrete I/O extension module

Complementary

>= 7 V for IBIG used as discrete input circuit	Complementary		
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 12 V DC Supply voltage limits 10.414.4 V Reverse polarity protection With Discrete input rumber 8 conforming to EN/IEC 61131-2 type 1 Discrete input voltage 12 V DC Discrete input current 4 mA Counting frequency 1 kHz for discrete input Circuit >= 7 V for IBIG used as discrete input circuit >= 7 V for IBIG used as discrete input circuit Current state 1 guaranteed >= 5.6 V for I1IA and IHIR discrete input circuit <= 3 V for IBIG used as discrete input circuit Current state 1 guaranteed >= 0.5 m A for IBIG used as discrete input circuit >= 0.5 m A for IBIG used as discrete input circuit >= 2 m A for I1IA and IHIR discrete input circuit	Number or control scheme lines	120 with ladder programming	
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Co.2 mA for IBIG used as discrete input circuit	Current state 1 guaranteed	·	
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Output voltage limits 530 V DC (relay output) 24250 V AC (relay output) Output thermal current 8 A for 4 outputs (relay output) 5 A for 2 outputs (relay output) 500000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC 60947-5-1	Input impedance	,	
24250 V AC (relay output) Contacts type and composition NO for relay output 8 A for 4 outputs (relay output) 5 A for 2 outputs (relay output) 500000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC 60947-5-1	Number of outputs	6 relay output(s)	
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Electrical durability 5 A for 2 outputs (relay output) 500000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC 60947-5-1	Contacts type and composition	NO for relay output	
60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC 60947-5-1	Output thermal current		
Switching capacity in mA >= 10 mA at 12 V (relay output)	Electrical durability	60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC	
	Switching capacity in mA	>= 10 mA at 12 V (relay output)	

Operating rate in Hz	10 Hz (no load) for relay output 0.1 Hz (at le) 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	
Response time	5 ms (from state 1 to state 0) for relay output 10 ms (from state 0 to state 1) for relay output	
Connections - terminals	Screw terminals, solid cable 2 x 0.22 x 1.5 mm² / AWG 24AWG 16 AWG Screw terminals, solid cable 1 x 0.21 x 2.5 mm² / AWG 25AWG 14 AWG Screw terminals, semi-solid cable 1 x 0.21 x 2.5 mm² / AWG 25AWG 14 AWG Screw terminals, flexible cable with cable end 2 x 0.252 x 0.75 mm² / AWG 24AWG 18 AWG Screw terminals, flexible cable with cable end 1 x 0.251 x 2.5 mm² / AWG 24AWG 14 AWG	
Tightening torque	0.5 N.m	
Overvoltage category	III conforming to EN/IEC 60664-1	
Product weight	0.22 kg	
Environment		
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	IP40 (front panel) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529	
Environmental characteristic	Low voltage directive conforming to EN/IEC 61131-2 EMC directive conforming to EN/IEC 61131-2 zone B EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-2	
Disturbance radiated/conducted	Class B conforming to EN 55022-11 group 1	
Dollution dograp	2 conforming to EN/IEC 61131-2	
Pollution degree	-2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2 -2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2	
Pollution degree Ambient air temperature for operation	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC	
	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC	
Ambient air temperature for operation	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2	
Ambient air temperature for operation Ambient air temperature for storage	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -4070 °C	

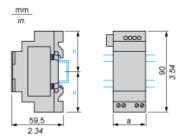


Product data sheet Dimensions Drawings

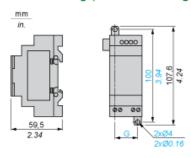
SR3XT141JD

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••	3,5 / 0.13	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

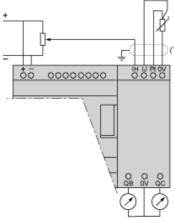
SR3XT141JD

Connection of Smart Relays on DC Supply, with Analog I/O Extension Module

Connection Alternatives

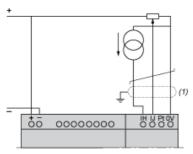
0 - 10 V	0 - 20 mA	Pt100
2	0	0
1	1	0
0	2	0
1	0	1
0	1	1

Application Example with 1 x 0 - 10 V Input and 1 x Pt100 Input



(1) Screened cables, maximum length 10 m/32.80 ft.

Application Example with 1 x 0 - 20 mA Input and 1 x 0 - 10 V Input



(1) Screened cables, maximum length 10 m/32.80 ft.

Product data sheet Performance Curves

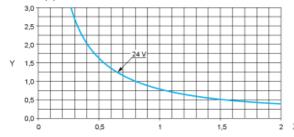
SR3XT141JD

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

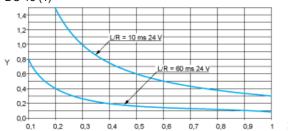
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

DC-12 (1)



- X: Current (A)
- Y: Millions of operating cycles
- (1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, L/R ≤ 1 ms.

DC-13 (1)



- X: Current (A)
- Y: Millions of operating cycles
- (1) DC-13: switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with a protection diode on the load, DC-12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles).