

Schneider Electric SR2A201BD

Manufacturer: Schneider Electric

Part Number: SR2A201BD

Product type: Compact smart relay

Product series: Zelio Logic

Product introduction:

Product datasheet for SR2A201BD. Compact smart relay for the Zelio Logic; number of outputs: 8 relay; analogue input number: 2; analogue input resolution: 8 bits; ip degree of protection: IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529

Product parameters:

io: 24 V DC - no clock - display Local distributor code: 389536813 SR2A201BD
ean: Code
range of product: Zelio Logic
product or component type: Compact smart relay
local display: With
number or control scheme lines: 0...240 with ladder programming
cycle time: 6...90 ms
backup time: 10 years at 25 ° C
clock drift: 12 min/year at 0...55 ° C 6 s/month at 25 ° C Checks Program memory on each power up
rated supply voltage: 24 V DC
supply voltage limits: 19.2...30 V
maximum supply current: 100 mA (without extension)
power dissipation in w: 6 W without extension
reverse polarity protection: With
discrete input number: 12 conforming to IEC 61131-2 Type 1
discrete input type: Resistive
discrete input voltage: 24 V DC
discrete input current: 4 mA
counting frequency: 1 kHz for discrete input
voltage state: 1 guaranteed ≥ 15 V for I1...IA and IH...IR discrete input circuit ≥ 15 V for IB...IG used as discrete input circuit
voltage state: 0 guaranteed ≤ 5 V for I1...IA and IH...IR discrete input circuit ≤ 5 V for IB...IG used as discrete input circuit
current state: 1 guaranteed ≥ 1.2 mA (IB...IG used as discrete input circuit) ≥ 2.2 mA (I1...IA and IH...IR discrete input circuit)
current state: 0 guaranteed ≤ 0.5 mA (IB...IG used as discrete input circuit)

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input compatibility: 3-wire proximity sensors PNP for discrete input
analogue input number: 2
analogue input type: Common mode
analogue input range: 0...24 V 0...10 V
maximum permissible voltage: 30 V for analogue input circuit a sa
analogue input resolution: 8 bits
lsb value: 39 mV for analogue input circuit Conversion time Smart relay cycle time for analogue input circuit
conversion error: 5 % at 25 ° C for analogue input circuit +/- 6.2 % at 55 ° C for analogue input circuit
repeat accuracy: +/- 2 % at 55 ° C for analogue input circuit
operating distance: 10 m between stations, with screened cable (sensor not isolated) for analogue input circuit
input impedance: 12 kOhm for IB...IG used as analogue input circuit 12 kOhm for IB...IG used as discrete input circuit 7.4 kOhm for I1...IA and IH...IR discrete input circuit
number of outputs: 8 relay
output voltage: limits 24...250 V AC (relay output) 5...30 V DC (relay output)
contacts type: and composition NO for relay output
output thermal current: 8 A for all 8 outputs for relay output
electrical durability: AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1 AC-15: 500000 cycles at 230 V, 0.9 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 DC-13: 500000 cycles at 24 V, 0.6 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: 10000000 cycles for relay output [Uimp] rated impulse withstand 4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1 voltage
clock: Without
response time: 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 0.2...1 x 2.5 mm² (AWG 25...AWG 14) semi-solid
screw terminals: 1 x 0.2...1 x 2.5 mm² (AWG 25...AWG 14) solid
screw terminals: 1 x 0.25...1 x 2.5 mm² (AWG 24...AWG 14) flexible with cable end
screw terminals: 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) solid
screw terminals: 2 x 0.25...2 x 0.75 mm² (AWG 24...AWG 18) flexible with cable end
tightening torque: 0.5 N.m
overvoltage category: III conforming to IEC 60664-1
net weight: 0.38 kg
immunity to microbreaks: 1 ms
product certifications: GOST CSA GL UL
standards: IEC 61000-4-5

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iec: 61000-4-6 level 3
iec: 60068-2-6 Fc
iec: 61000-4-12
iec: 61000-4-11
iec: 61000-4-3
iec: 61000-4-2 level 3
iec: 60068-2-27 Ea
iec: 61000-4-4 level 3 2 29 Nov 2024
ip degree of protection: IP20 (terminal block) conforming to IEC 60529 IP40 (front panel)
conforming to IEC 60529
environmental characteristic emc directive conforming to: 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: 55022-11 group 1
pollution degree: 2 conforming to IEC 61131-2
ambient air temperature: for -20 ... 40 ° C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC operation 60068-2-2 -20 ... 55 ° C conforming to IEC 60068-2-1 and IEC 60068-2-2
ambient air temperature: for -40 ... 70 ° C storage
operating altitude: 2000 m
maximum altitude transport: 3048 m
relative humidity: 95 % without condensation or dripping water
unit type of package: 1 PCE
number of units in package: 1
package: 1 Height 6.500 cm
package: 1 Width 10.000 cm
package: 1 Length 13.300 cm
package: 1 Weight 356.000 g
unit type of package: 2 S03
number of units in package: 2 20
package: 2 Height 30.000 cm
package: 2 Width 30.000 cm
package: 2 Length 40.000 cm
package: 2 Weight 7.620 kg
warranty: 18 months
environmental: Data
schneider electric aims to achieve net: 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. How this information helps you

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carbon footprint kg: CO2 eq, 301
total: Life cycle)
environmental disclosure: Product Environmental Profile Use Better
materials and: Substances Packaging made with recycled No cardboard
scip: Number b11f-2737d556b9de
reach regulation: REACH Declaration
china rohs regulation: China RoHS declaration
pvc-free: Yes Use Again Repack and remanufacture 4 29 Nov 2024
circularity profile: End of Life Information The product must be disposed on European Union
WEEE markets following specific
take back: No
dimensions: Drawings
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 6 29 Nov 2024
connections and: Schema
compact and: Modular Smart Relays Connection of Smart Relays on DC Supply (1) 1 A
quick-blow fuse or circuit-breaker. (2) Fuse or circuit-breaker.
discrete input used for: 3-Wire Sensors (1) 1 A quick-blow fuse or circuit-breaker.
performance: Curves
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, $L/R \leq 1$ ms. DC-13 (1)
x: Current (A) Y: Millions of operating cycles (1) DC-13: switching electromagnets, $L/R \leq 2 \times$
($U_e \times I_e$) in ms, U_e : rated operational voltage, I_e : 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
product datasheet: SR2A201BD Image of product / Alternate images Alternative
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Product details:

Specifications

compact smart relay Zelio Logic - 20

Main

Complementary

Environment

C-Tick

Packing Units

Contractual warranty

Environmental footprint

Packaging without single use

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Yes

plastic

Pro-active compliance

EU RoHS Directive (Product out of EU RoHS legal scope)

91701a78-5972-4eb5-

waste collection and never

end up in rubbish bins

(3) Inductive load.

(4) Q9 and QA: 5 A (max. current in terminal C: 10 A).

in millions of operating cycles).

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