## Product data sheet

Characteristics

SR3B101FU
modular smart relay Zelio Logic－ 10 I O－
100．． 240 V AC －clock－display
Product availability ：Stock－Normally stocked in distribution facility

Price＊：292．00 USD


Main

| Range of product | Zelio Logic | $\stackrel{\text { ® }}{\text { ¢ }}$ |
| :---: | :---: | :---: |
| Product or component type | Modular smart relay | 号 |
| Complementary |  | － |
| Local display | With | 응 |
| Number or control scheme lines | $0 . . .500$ with FBD programming <br> 0．．． 240 with ladder programming | ＋ |
| Cycle time | $6 . .90 \mathrm{~ms}$ | 言 |
| Backup time | 10 yearsat $77{ }^{\circ} \mathrm{F}\left(25^{\circ} \mathrm{C}\right)$ | － |
| Clock drift | $\begin{aligned} & 6 \mathrm{~s} / \text { monthat } 77^{\circ} \mathrm{F}\left(25^{\circ} \mathrm{C}\right) \\ & 12 \mathrm{~min} / \text { yearat } 32 \ldots . .131^{\circ} \mathrm{F}\left(0 . . .55^{\circ} \mathrm{C}\right) \end{aligned}$ | 圱 |
| Checks | Program memory on each power up | O |
| ［Us］rated supply voltage | 100．．． 240 V | E |
| Supply voltage limits | 85．．． 264 V | $\stackrel{\text { \％}}{0}$ |
| Supply frequency | $50 / 60 \mathrm{~Hz}$ | － |
| Supply current | 30 mA at 240 V （without extension） <br> 40 mA at 240 V （with extensions） <br> 80 mAat 100 V （with extensions） <br> 80 mA at 100 V （without extension） | ¢ |
| Power consumption in VA | 12 VA with extensions 7 VA without extension | － |
| Isolation voltage | 1780 V | － |
| Protection type | Against inversion of terminals（control instructions not executed） | \％ |
| Discrete input number | 6 | 융 |
| Discrete input voltage | 100．．． 240 V AC | $\stackrel{\text { D．}}{ \pm}$ |
| Discrete input current | 0.6 mA | $\stackrel{\text { ¢ }}{\text { ¢ }}$ |
| Discrete input frequency | $\begin{aligned} & 47 \ldots . .53 \mathrm{~Hz} \\ & 57 \ldots 63 \mathrm{~Hz} \end{aligned}$ | － |
| Voltage state 1 guaranteed | ＞＝ 79 V for discrete input | \％ |
| Voltage state 0 guaranteed | ＜＝ 40 Vfor discrete input | $\stackrel{8}{\square}$ |
| Current state 1 guaranteed | $>=0.17 \mathrm{~mA}$ for discrete input | $\stackrel{\square}{\text { ® }}$ |
| Current state 0 guaranteed | ＜＝ 0.5 mA for discrete input | 皆 |


| Input impedance | 350 kOhm (discrete input) |
| :---: | :---: |
| Number of outputs | 4 relay output(s) |
| Output voltage limits | 24... 250 V AC <br> 5... 30 V DC (relay output) |
| Contacts type and composition | NO relay output |
| Output thermal current | 8 A for all 4 outputs (relay output) |
| Electrical durability | 500000 cycles AC-12at 230 V, 1.5 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-15at $230 \mathrm{~V}, 0.9$ Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-12at $24 \mathrm{~V}, 1.5$ Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-13at $24 \mathrm{~V}, 0.6$ Afor relay output conforming to EN/IEC 60947-5-1 |
| Switching capacity in mA | >= 10 mAat 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 (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 ) relay output <br> 5 ms (from state 1 to state 0 ) relay output <br> 50 ms with ladder programming (from state 0 to state 1) discrete input 50 ms with ladder programming (from state 1 to state 0 ) discrete input $50 \ldots 255 \mathrm{~ms}$ with FBD programming (from state 0 to state 1) discrete input $50 \ldots 255 \mathrm{~ms}$ with FBD programming (from state 1 to state 0 ) discrete input |
| Connections - terminals | Screw terminals, clamping capacity: $1 \times 0.2 \ldots 1 \times 2.5 \mathrm{~mm}^{2}$ AWG $25 \ldots$...AWG 14 semi-solid <br> Screw terminals, clamping capacity: $1 \times 0.2 \ldots 1 \times 2.5 \mathrm{~mm}^{2}$ AWG $25 \ldots$...AWG 14 solid <br> Screw terminals, clamping capacity: $1 \times 0.25 \ldots 1 \times 2.5 \mathrm{~mm}^{2}$ AWG $24 \ldots$...AWG 14 flexible with cable end <br> Screw terminals, clamping capacity: $2 \times 0.2 \ldots 2 \times 1.5 \mathrm{~mm}^{2}$ AWG $24 \ldots$...AWG 16 solid <br> Screw terminals, clamping capacity: $2 \times 0.25 \ldots 2 \times 0.75 \mathrm{~mm}^{2}$ AWG $24 \ldots$...AWG 18 flexible with cable end |
| Tightening torque | 4.42 lbf.in (0.5 N.m) |
| Overvoltage category | III conforming to EN/IEC 60664-1 |
| Product weight | 0.55 lb (US) ( 0.25 kg ) |

## Environment

| Immunity to microbreaks | <= 10 ms |
| :---: | :---: |
| 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 | 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 | $-4 \ldots 104{ }^{\circ} \mathrm{F}\left(-20 . .40^{\circ} \mathrm{C}\right)$ in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 |
|  | $-4 \ldots 131{ }^{\circ} \mathrm{F}\left(-20 . .55^{\circ} \mathrm{C}\right)$ conforming to IEC 60068-2-1 and IEC 60068-2-2 |
| Ambient air temperature for storage | $-40 \ldots 158{ }^{\circ} \mathrm{F}\left(-40 \ldots 70^{\circ} \mathrm{C}\right)$ |
| Operating altitude | $6561.68 \mathrm{ft}(2000 \mathrm{~m})$ |
| Altitude transport | <= $10000 \mathrm{ft}(3048 \mathrm{~m})$ |

Ordering and shipping details

| Category | 22378 - SR2,3 ZELIO 2 RELAYS |
| :--- | :--- |
| Discount Schedule | I |
| GTIN | 00785901422648 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.53000000000000003 |
| Returnability | Y |
| Country of origin | FR |

Offer Sustainability

| California proposition 65 | WARNING: This product can expose you to chemicals including: |
| :--- | :--- |
| ----- Substance 1 | Lead and lead compounds, which is known to the State of California to cause cancer and birth <br> defects or other reproductive harm. |
| ----- More information | For more information go to www.p65warnings.ca.gov |

Contractual warranty
Warranty period 18 months

Dimensions Drawings

Compact and Modular Smart Relays
Mounting on $35 \mathrm{~mm} / 1.38$ in. DIN Rail
$\frac{\mathrm{mm}}{\mathrm{in} .}$

(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)
mm

(1) With SR2USB01 or SR2BTC01

Position of Display


## 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 $\cdots$ B, SR3B $\cdots F U+S R 3 X T \cdots F U$

(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)

$\mathrm{X}: \quad$ Current (A)
Y: $\quad$ 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 : $\quad$ Current (A)
Y: Millions of operating cycles
(1) AC-14: switching small electromagnetic loads $\leq 72 \mathrm{VA}$, make: $\cos =0.3$, break: $\cos =0.3$.

AC-15 (1)

$\mathrm{X}: \quad$ Current (A)
Y: $\quad$ Millions of operating cycles
(1) AC-15: switching electromagnetic loads $\geq 72 \mathrm{VA}$, make: $\cos =0.7$, break: $\cos =0.4$.

