

SIMATIC ET 200SP, Signal relay module, RQ CO 4x 24V DC/2A ST, 4 changeover contacts, isolated contacts, packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: supply voltage



| General information | |
|---|--|
| Product type designation | RQ CO 4x24VDC/2A ST |
| HW functional status | From FS02 |
| Firmware version | V0.0 |
| <ul style="list-style-type: none"> FW update possible | No |
| usable BaseUnits | BU type A0 |
| Color code for module-specific color identification plate | CC00 |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| <ul style="list-style-type: none"> Isochronous mode | No |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated as of version | V14 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated as of version | V5.5 SP3 |
| <ul style="list-style-type: none"> PROFIBUS as of GSD version/GSD revision | One GSD file each, Revision 3 and 5 and higher |
| <ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision | GSDML V2.3 |
| Operating mode | |
| <ul style="list-style-type: none"> DQ | Yes |

| | |
|--|-----------------------------|
| • DQ with energy-saving function | No |
| • PWM | No |
| • Oversampling | No |
| • MSO | No |
| Redundancy | |
| • Redundancy capability | Yes |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| Input current | |
| Current consumption (rated value) | 50 mA |
| Power loss | |
| Power loss, typ. | 1.2 W |
| Address area | |
| Address space per module | |
| • Inputs | + 1 byte for QI information |
| • Outputs | 1 byte |
| Hardware configuration | |
| Automatic encoding | Yes |
| • Mechanical coding element | Yes |
| Digital outputs | |
| Type of digital output | Relays |
| Number of digital outputs | 4 |
| Current-sinking | Yes |
| Current-sourcing | Yes |
| Digital outputs, parameterizable | Yes |
| Short-circuit protection | No |
| Parallel switching of two outputs | |
| • for logic links | Yes |
| • for uprating | No |
| • for redundant control of a load | Yes |
| Switching frequency | |
| • with resistive load, max. | 2 Hz |
| Total current of the outputs | |
| • Current per channel, max. | 2 A |
| • Current per module, max. | 8 A |
| Total current of the outputs (per module) | |
| horizontal installation | |

| | |
|--|-------------------------|
| — up to 40 °C, max. | 8 A |
| — up to 50 °C, max. | 6 A |
| — up to 60 °C, max. | 4 A |
| vertical installation | |
| — up to 30 °C, max. | 8 A |
| — up to 40 °C, max. | 6 A |
| — up to 50 °C, max. | 4 A |
| Relay outputs | |
| • Number of relay outputs | 4 |
| • Rated supply voltage of relay coil L+ (DC) | 24 V |
| • Current consumption of relays (coil current of all relays), max. | 40 mA |
| Switching capacity of contacts | |
| — with resistive load, max. | 2 A |
| — Thermal continuous current, max. | 2 A |
| — Switching current, min. | 1 mA; 5 V DC |
| — Rated switching voltage (DC) | 24 V |
| — Rated switching voltage (AC) | 24 V |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Substitute values connectable | Yes |
| Alarms | |
| • Diagnostic alarm | Yes |
| Diagnostic messages | |
| • Monitoring the supply voltage | Yes |
| • Wire-break | No |
| • Short-circuit | No |
| Diagnostics indication LED | |
| • Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| • Channel status display | Yes; green LED |
| • for channel diagnostics | No |
| • for module diagnostics | Yes; green/red DIAG LED |
| Potential separation | |
| Potential separation channels | |
| • between the channels | Yes |
| • between the channels and backplane bus | Yes |
| • between the channels and the power supply of the electronics | Yes |

Isolation

Isolation tested with 707 V DC (type test)

Standards, approvals, certificates

Suitable for safety functions No

Ambient conditions

Ambient temperature during operation

- horizontal installation, min. -30 °C
- horizontal installation, max. 60 °C
- vertical installation, min. -30 °C
- vertical installation, max. 50 °C

Altitude during operation relating to sea level

- Installation altitude above sea level, max. 2 000 m; On request: Installation altitudes greater than 2 000 m

Dimensions

Width 15 mm

Height 73 mm

Depth 58 mm

Weights

Weight, approx. 30 g

last modified: 05/09/2020