



SIMATIC ET 200SP, relay module, RQ CO 3x 120V DC..230VAC/5A ST, 3 CO contacts isolated contacts, packing unit: 1 unit, suitable for BU type U0, color code CC20, substitute value output, module diagnostics for supply voltage

| General information  |  |
|--|--|
| Product type designation   | RQ 3x120VDC-230VAC/5A CO ST                    |
| Firmware version   | V0.0   |
| <ul style="list-style-type: none"> <li>FW update possible</li> </ul>                                     | No   |
| usable BaseUnits   | BU type U0                                     |
| Color code for module-specific color identification plate  | CC20   |
| Product function   |  |
| <ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>   | Yes; I&M0 to I&M3                              |
| <ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>                                       | No   |
| Engineering with   |  |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul> | STEP 7 V16 or higher                           |
| <ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>            | Configurable via GSD file                      |
| <ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>                 | One GSD file each, Revision 3 and 5 and higher |
| <ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>                 | GSDML V2.34                                    |
| 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)  | 40 mA; without load                            |
| Current consumption, max.  | 55 mA  |
| output voltage / header  |  |
| Rated value (AC)   | 230 V  |
| Power loss   |  |
| Power loss, typ.   | 1.6 W  |
| Address area   |  |
| Address space per module   |  |
| <ul style="list-style-type: none"> <li>Inputs</li> </ul>   | + 1 byte for QI information                    |
| <ul style="list-style-type: none"> <li>Outputs</li> </ul>  | 1 byte   |
| Hardware configuration   |  |
| Automatic encoding   | Yes  |
| <ul style="list-style-type: none"> <li>Mechanical coding element</li> </ul>                              | Yes  |
| <ul style="list-style-type: none"> <li>Type of mechanical coding element</li> </ul>                      | type C   |
| Selection of BaseUnit for connection variants  |  |
| <ul style="list-style-type: none"> <li>2-wire connection</li> </ul>                                      | BU type U0                                     |
| <ul style="list-style-type: none"> <li>3-wire connection</li> </ul>                                      | BU type U0                                     |
| Digital outputs  |  |
| Type of digital output   | Relays   |
| Number of digital outputs  | 3  |

|  |  |
|--|--|
| Current-sinking  | Yes  |
| Current-sourcing   | Yes  |
| Digital outputs, parameterizable   | Yes  |
| Short-circuit protection   | No   |
| <b>Switching capacity of the outputs</b>   |  |
| <ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>  | 5 A; for an additional description, see the Technical Data in the Equipment Manual   |
| <ul style="list-style-type: none"> <li>with inductive load, max.</li> </ul>  | 2 A; for an additional description, see the Technical Data in the Equipment Manual   |
| <b>Parallel switching of two outputs</b>   |  |
| <ul style="list-style-type: none"> <li>for logic links</li> </ul>  | Yes  |
| <ul style="list-style-type: none"> <li>for uprating</li> </ul>   | No   |
| <ul style="list-style-type: none"> <li>for redundant control of a load</li> </ul>                                  | Yes  |
| <b>Switching frequency</b>   |  |
| <ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>  | 2 Hz   |
| <ul style="list-style-type: none"> <li>with inductive load, max.</li> </ul>  | 0.5 Hz   |
| <ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>   | 2 Hz   |
| <b>Total current of the outputs</b>  |  |
| <ul style="list-style-type: none"> <li>Current per channel, max.</li> </ul>  | 5 A  |
| <ul style="list-style-type: none"> <li>Current per module, max.</li> </ul>   | 15 A   |
| <b>Total current of the outputs (per module)</b>   |  |
| <b>horizontal installation</b>   |  |
| <ul style="list-style-type: none"> <li>up to 50 °C, max.</li> </ul>  | 15 A   |
| <ul style="list-style-type: none"> <li>up to 60 °C, max.</li> </ul>  | 12 A; maximum channel current 4A   |
| <b>vertical installation</b>   |  |
| <ul style="list-style-type: none"> <li>up to 40 °C, max.</li> </ul>  | 15 A   |
| <ul style="list-style-type: none"> <li>up to 50 °C, max.</li> </ul>  | 12 A; maximum channel current 4A   |
| <b>Relay outputs</b>   |  |
| <ul style="list-style-type: none"> <li>Number of relay outputs</li> </ul>  | 3; changeover contact, isolated  |
| <ul style="list-style-type: none"> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>                       | 24 V   |
| <ul style="list-style-type: none"> <li>Current consumption of relays (coil current of all relays), max.</li> </ul> | 30 mA  |
| <ul style="list-style-type: none"> <li>external protection for relay outputs</li> </ul>                            | yes, with miniature fuse max. 6.3 A tripping current, quick-response tripping characteristic and 1 500 A breaking capacity |
| <ul style="list-style-type: none"> <li>Number of operating cycles, max.</li> </ul>                                 | 1 000 000; see additional description in the manual  |
| <b>Switching capacity of contacts</b>  |  |
| <ul style="list-style-type: none"> <li>with inductive load, max.</li> </ul>  | 2 A; see additional description in the manual  |
| <ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>  | 5 A; see additional description in the manual  |
| <ul style="list-style-type: none"> <li>Thermal continuous current, max.</li> </ul>                                 | 5 A; Max. 1 385 VA, 150 W  |
| <ul style="list-style-type: none"> <li>Switching current, min.</li> </ul>  | 10 mA; 5 V DC  |
| <ul style="list-style-type: none"> <li>Rated switching voltage (DC)</li> </ul>                                     | 24 V DC to 120 V DC  |
| <ul style="list-style-type: none"> <li>Rated switching voltage (AC)</li> </ul>                                     | 24V AC to 230V AC  |
| <b>Cable length</b>  |  |
| <ul style="list-style-type: none"> <li>shielded, max.</li> </ul>   | 1 000 m  |
| <ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>   | 200 m  |
| <b>Interrupts/diagnostics/status information</b>   |  |
| Diagnostics function   | Yes  |
| Substitute values connectable  | Yes  |
| <b>Alarms</b>  |  |
| <ul style="list-style-type: none"> <li>Diagnostic alarm</li> </ul>   | Yes  |
| <b>Diagnoses</b>   |  |
| <ul style="list-style-type: none"> <li>Monitoring the supply voltage</li> </ul>                                    | Yes  |
| <ul style="list-style-type: none"> <li>Wire-break</li> </ul>   | No   |
| <ul style="list-style-type: none"> <li>Short-circuit</li> </ul>  | No   |
| <b>Diagnostics indication LED</b>  |  |
| <ul style="list-style-type: none"> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>                       | Yes; green PWR LED   |
| <ul style="list-style-type: none"> <li>Channel status display</li> </ul>   | Yes; green LED   |
| <ul style="list-style-type: none"> <li>for channel diagnostics</li> </ul>  | No   |
| <ul style="list-style-type: none"> <li>for module diagnostics</li> </ul>   | Yes; green/red DIAG LED  |
| <b>Potential separation</b>  |  |
| <b>Potential separation channels</b>   |  |
| <ul style="list-style-type: none"> <li>between the channels</li> </ul>   | Yes  |

- between the channels and backplane bus
- between the channels and the power supply of the electronics

Yes  
Yes

### Isolation

|   |                           |
|---|---------------------------|
| Isolation tested with                               | 2 000 V DC (routine test) |
| tested with   |                           |
| • between channels and backplane bus/supply voltage | 2 000 V DC (routine test) |
| • between backplane bus and supply voltage          | 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 |

### Dimensions

|        |       |
|--------|-------|
| Width  | 20 mm |
| Height | 73 mm |
| Depth  | 58 mm |

### Weights

|                 |      |
|-----------------|------|
| Weight, approx. | 40 g |
|-----------------|------|

### Classifications

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-26-04    |
| eClass | 12      | 27-24-26-04    |
| eClass | 9.1     | 27-24-26-04    |
| eClass | 9       | 27-24-26-04    |
| eClass | 8       | 27-24-26-04    |
| eClass | 7.1     | 27-24-26-04    |
| eClass | 6       | 27-24-26-04    |
| ETIM   | 9       | EC001599       |
| ETIM   | 8       | EC001599       |
| ETIM   | 7       | EC001599       |
| IDEA   | 4       | 3566           |
| UNSPSC | 15      | 32-15-17-05    |

### Approvals / Certificates

#### General Product Approval



[Manufacturer Declaration](#)

[Miscellaneous](#)



[KC](#)

General Product Approval

For use in hazardous locations

Maritime application



[FM](#)



Maritime application

Environment

last modified:

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