SIEMENS

## Data sheet 6ES7132-6MD00-0BB1

Siemens EcoTech

SIMATIC ET 200SP, relay module normally open, RQ NO-MA4x120VDC..230VAC/5A ST, with manual operation, packing unit VPE 1, suitable for BU type B0 or B1, Module diagnostics

| | |
|---|---|
| **General information** | |
| Product type designation | RQ 4x120 V DC ... 230 V AC/5 A NO MA ST |
| HW functional status | From FS03 |
| Firmware version | |
| ● FW update possible | Yes |
| usable BaseUnits | BU type B0, B1 |
| Color code for module-specific color identification plate | CC40 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Isochronous mode | No |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | V13 SP1 |
| ● STEP 7 configurable/integrated from version | V5.5 SP3 / - |
| ● PROFIBUS from GSD version/GSD revision | One GSD file each, Revision 3 and 5 and higher |
| ● PROFINET from GSD version/GSD revision | GSDML V2.3 |
| Operating mode | |
| ● DQ | Yes |
| ● DQ with energy-saving function | No |
| ● PWM | No |
| ● Oversampling | No |
| ● MSO | No |
| **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, max. | 100 mA; without load |
| **Power loss** | |
| Power loss, typ. | 1.5 W |
| **Address area** | |
| Address space per module | |
| ● Inputs | 1 byte; + 1 byte for QI information |
| ● Outputs | 1 byte |
| **Hardware configuration** | |
| Automatic encoding | Yes |

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|---|---|
| ● Mechanical coding element | Yes |
| ● Type of mechanical coding element | type C |
| Selection of BaseUnit for connection variants | |
| ● 2-wire connection | BU type B1 |
| ● 3-wire connection | BU type B0 |
| **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 |
| Switching frequency | |
| ● with resistive load, max. | 2 Hz |
| ● with inductive load (acc. to IEC 60947-5-1, DC13), max. | 0.5 Hz; provide one freewheeling diode for switching frequencies higher than 0.1 Hz |
| ● with inductive load (acc. to IEC 60947-5-1, AC15), max. | 0.5 Hz |
| ● on lamp load, max. | 2 Hz |
| Total current of the outputs | |
| ● Current per channel, max. | 5 A |
| ● Current per module, max. | 20 A |
| Total current of the outputs (per module) | |
| horizontal installation | |
| — up to 50 °C, max. | 20 A |
| — up to 60 °C, max. | 16 A |
| vertical installation | |
| — up to 40 °C, max. | 20 A |
| — up to 50 °C, max. | 16 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 |
| ● external protection for relay outputs | Yes, with miniature fuse max. 6 A tripping current and quick-response tripping characteristic |
| ● Number of operating cycles, max. | 7 000 000; see additional description in the manual |
| Switching capacity of contacts | |
| — with inductive load, max. | 2 A; see additional description in the manual |
| — with resistive load, max. | 5 A; see additional description in the manual |
| — Thermal continuous current, max. | 5 A |
| — Switching current, min. | 100 mA; 5 V DC |
| — Rated switching voltage (DC) | 24 V DC to 120 V DC |
| — Rated switching voltage (AC) | 24V AC to 230V AC |
| 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 |
| Diagnoses | |
| ● Monitoring the supply voltage | Yes |
| ● Wire-break | No |
| ● Short-circuit | No |
| ● Group error | Yes |
| 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 |
| **Permissible potential difference** | |
| between channels and backplane bus/supply voltage | 240 V AC |
| **Isolation** | |
| Isolation tested with | 2 500 V DC (type test) |
| tested with | |
| ● between channels and backplane bus/supply voltage | 2 500 V DC |
| ● between backplane bus and supply voltage | 707 V DC (type test) |
| **Standards, approvals, certificates** | |
| Suitable for safety functions | No |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 25.5 kg |
| — global warming potential, (during production) [CO2 eq] | 3.54 kg |
| — global warming potential, (during operation) [CO2 eq] | 22.1 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.137 kg |
| **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 | 20 mm |
| Height | 73 mm |
| Depth | 58 mm |
| **Weights** | |
| Weight, approx. | 45 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 | 10 | EC001599 |
| ETIM | 9 | EC001599 |
| ETIM | 8 | EC001599 |
| ETIM | 7 | EC001599 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

| General Product Approval | Test Certificates | Maritime application |
|---|---|---|

Type Test Certificates/Test Report

| Maritime application | other | Environment |
|---|---|---|

Confirmation

| Environment |
|---|

Environmental Confirmations

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