SIEMENS

## Data sheet 6ES7132-6HD01-0BB1

SIMATIC ET 200SP, Relay module, RQ NO 4x 120V DC..230VAC/5A ST. 4 normally open contacts, isolated contacts, packing unit: 1 piece, fits to BU-type B0 and B1, Colour Code CC40, substitute value output, module diagnostics for: supply voltage

| | |
|---|---|
| **General information** | |
| Product type designation | RQ 4x120 VDC ... 230 VAC/5 A NO ST |
| HW functional status | From FS02 |
| Firmware version | V0.0 |
| ● FW update possible | No |
| 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 | V14 |
| ● STEP 7 configurable/integrated from version | V5.5 SP3 |
| ● PCS 7 configurable/integrated from version | V8.1 SP1 |
| ● 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 |
| 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) | 55 mA; without load |
| **output voltage / header** | |
| Rated value (AC) | 230 V |
| **Power loss** | |
| Power loss, typ. | 1.5 W |
| **Address area** | |
| Address space per module | |
| ● Inputs | + 1 byte for QI information |
| ● Outputs | 1 byte |
| **Hardware configuration** | |

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| Automatic encoding | Yes |
| ● 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 |
| 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 |
| ● with inductive load (acc. to IEC 60947-5-1, DC13), max. | 0.5 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; Max. 1 385 VA, 150 W |
| — 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 |
| Diagnostics indication LED | |
| ● Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |

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| ● 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 |
| **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. | 40 g |

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