SIEMENS

## Data sheet 6ES7522-5FF00-0AB0



Figure similar

SIMATIC S7-1500, digital output module DQ 8x230 V AC/2 A ST; TRIAC; 8 channels in groups of 1; 2 A per group; Substitute value: Front connector (screw terminals or push-in) to be ordered separately

| | |
|---|---|
| **General information** | |
| Product type designation | DQ 8x230 V AC/2A ST (triac) |
| HW functional status | from FS01 |
| Firmware version | V2.3.0 |
| ● FW update possible | Yes |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Isochronous mode | No |
| ● Prioritized startup | Yes |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | V12 / V12 |
| ● STEP 7 configurable/integrated from version | V5.5 SP3 / - |
| ● PROFIBUS from GSD version/GSD revision | V1.0 / V5.1 |
| ● PROFINET from GSD version/GSD revision | V2.3 / - |
| Operating mode | |
| ● DQ | Yes |
| ● DQ with energy-saving function | No |
| ● PWM | No |
| ● Cam control (switching at comparison values) | No |
| ● Oversampling | No |
| ● MSO | Yes |
| ● Integrated operating cycle counter | Yes; FW V2.3.0 or higher |
| **Output voltage** | |
| Rated value (AC) | 230 V; 120/230 V AC, 50/60 Hz |
| **Power** | |
| Power consumption from the backplane bus | 0.9 W |
| **Power loss** | |
| Power loss, typ. | 10.8 W |
| **Address area** | |
| Address space per module | |
| ● Inputs | 0 byte |
| ● Outputs | 1 byte |
| **Digital outputs** | |
| Type of digital output | Triac |
| Number of digital outputs | 8 |
| Current-sinking | No |
| Current-sourcing | Yes |
| Digital outputs, parameterizable | Yes |


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| | |
|---|---|
| Short-circuit protection | No |
| ● built-in fuse | 6.3 A melting fuse, slow-blow |
| Size of motor starters according to NEMA, max. | 5 |
| Digital output functions, parameterizable | |
| ● Switching tripped by comparison values | No |
| ● Freely usable digital output | No |
| ● PWM output | No |
| ● Digital output with oversampling | No |
| Switching capacity of the outputs | |
| ● with resistive load, max. | 2 A |
| ● on lamp load, max. | 50 W |
| Output voltage | |
| ● for signal "1", min. | L1 (-1.5 V) at maximum output current; L1 (-8.5 V) at minimum output current |
| Output current | |
| ● for signal "1" rated value | 2 A |
| ● for signal "1" permissible range, min. | 10 mA |
| ● for signal "1" permissible range, max. | 15 A; max. 1 AC cycle |
| ● for signal "0" residual current, max. | 2 mA |
| Output delay with resistive load | |
| ● "0" to "1", max. | 1 AC cycle |
| ● "1" to "0", max. | 1 AC cycle |
| Parallel switching of two outputs | |
| ● for logic links | No |
| ● for uprating | No |
| ● for redundant control of a load | Yes |
| Switching frequency | |
| ● with resistive load, max. | 10 Hz |
| ● with inductive load, max. | 0.5 Hz |
| ● on lamp load, max. | 1 Hz |
| Total current of the outputs | |
| ● Current per channel, max. | 2 A; see additional description in the manual |
| ● Current per group, max. | 2 A; see additional description in the manual |
| ● Current per module, max. | 10 A; see additional description in the manual |
| Cable length | |
| ● shielded, max. | 1 000 m |
| ● unshielded, max. | 600 m |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | No |
| Substitute values connectable | Yes |
| Alarms | |
| ● Diagnostic alarm | No |
| ● Maintenance interrupt | Yes; maintenance alarm for switching cycle counter |
| Diagnoses | |
| ● Monitoring the supply voltage | No |
| ● Wire break | No |
| ● Short-circuit | No |
| ● Group error | No |
| Diagnostics indication LED | |
| ● RUN LED | Yes; green LED |
| ● ERROR LED | Yes; red LED |
| ● MAINT LED | Yes; Yellow LED |
| ● Monitoring of the supply voltage (PWR-LED) | No |
| ● Channel status display | Yes; green LED |
| ● for channel diagnostics | No |
| ● for module diagnostics | Yes; red LED |
| **Potential separation** | |
| Potential separation channels | |
| ● between the channels | Yes |
| ● between the channels, in groups of | 1 |


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| | |
|---|---|
| ● between the channels and backplane bus | Yes |
| ● Between the channels and load voltage L1 | Yes |
| **Permissible potential difference** | |
| between different circuits | 250 V AC between the channels and the backplane bus; 500 V AC between the channels |
| **Isolation** | |
| Isolation tested with | 3 100 V DC |
| **Standards, approvals, certificates** | |
| Siemens Eco Profile (SEP) | Siemens EcoTech |
| Suitable for safety functions | No |
| Suitable for safety-related tripping of standard modules | No |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 43.8 kg |
| — global warming potential, (during production) [CO2 eq] | 9.5 kg |
| — global warming potential, (during operation) [CO2 eq] | 34.5 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.231 kg |
| **Security** | |
| signed firmware update | No |
| safely removing data | No |
| data integrity | No |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● horizontal installation, min. | -25 °C; From FS05 |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -25 °C; From FS05 |
| ● vertical installation, max. | 40 °C |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 2 000 m |
| Absolute humidity | |
| ● dew point, min. | -60 °C; suitable for dry room applications |
| **Dimensions** | |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |
| **Weights** | |
| Weight, approx. | 290 g |
| **Classifications** | |

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-04 |
| eClass | 14 | 27-24-22-04 |
| eClass | 12 | 27-24-22-04 |
| eClass | 9.1 | 27-24-22-04 |
| eClass | 9 | 27-24-22-04 |
| eClass | 8 | 27-24-22-04 |
| eClass | 7.1 | 27-24-22-04 |
| eClass | 6 | 27-24-22-04 |
| ETIM | 10 | EC001419 |
| ETIM | 9 | EC001419 |
| ETIM | 8 | EC001419 |
| ETIM | 7 | EC001419 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |


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## Approvals / Certificates

| General Product Approval | Test Certificates | other | Environment |
|---|---|---|---|
| CE EG-Konf. | Type Test Certificates/Test Report | Confirmation | Environmental Confirmations |

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