SIEMENS

Data sheet

6ES7522-1BL10-0AA0

SIMATIC S7-1500, Digital output module, DQ32x24 V DC/0.5A BA, 32 channels in groups of 8, 4 A per group incl. push-in front connector



| General information | |
|---|---------------------|
| Product type designation | DQ 32x24VDC/0.5A BA |
| HW functional status | FS01 |
| Firmware version | V1.0.0 |
| FW update possible | Yes |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| Engineering with | |
| STEP 7 TIA Portal configurable/integrated as of version | V13 / V13 |
| STEP 7 configurable/integrated as of version | V5.5 SP3 / - |
| PROFIBUS as of GSD version/GSD revision | V1.0 / V5.1 |
| PROFINET as of GSD version/GSD revision | V2.3 / - |
| Operating mode | |
| • DQ | Yes |
| DQ with energy-saving function | No |
| • PWM | No |
| Oversampling | No |
| • MSO | Yes |
| | |

| Supply voltage | |
|--|---|
| Type of supply voltage | DC |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes; through internal protection with 7 A per group |
| Input current | |
| Current consumption, max. | 60 mA |
| | |
| Output voltage | 24.)/ |
| Rated value (DC) | 24 V |
| Power | |
| Power available from the backplane bus | 1.15 W |
| Power loss | |
| Power loss, typ. | 3.8 W |
| | |
| Digital outputs | Tangaistan |
| Type of digital output | Transistor |
| Number of digital outputs | 32 |
| Current-sourcing | Yes |
| Short-circuit protection | Yes |
| Response threshold, typ. | 1A |
| Limitation of inductive shutdown voltage to | L+ (-53 V) |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| • with resistive load, max. | 0.5 A |
| • on lamp load, max. | 5 W |
| Load resistance range | |
| lower limit | 48 Ω |
| • upper limit | 12 kΩ |
| Output voltage | |
| ● for signal "1", min. | L+ (-0.8 V) |
| Output current | |
| for signal "1" rated value | 0.5 A |
| for signal "1" permissible range, max. | 0.5 A |
| • for signal "0" residual current, max. | 0.5 mA |
| Output delay with resistive load | |
| • "0" to "1", max. | 100 µs |
| • "1" to "0", max. | 500 µs |
| 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. | 100 Hz |
| with residuce load, max. with inductive load, max. | 0.5 Hz; According to IEC 60947-5-1, DC-13 |
| on lamp load, max. | 10 Hz |
| Total current of the outputs | 10112 |
| | 0.5 A; see additional description in the manual |
| Current per channel, max. | 4 A; see additional description in the manual |
| Current per group, max. | • |
| • Current per module, max. | 16 A; see additional description in the manual |
| Cable length | 4 000 |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| sochronous mode | |
| Isochronous operation (application synchronized up | No |
| to terminal) | |
| nterrupts/diagnostics/status information | |
| Diagnostics function | No |
| Substitute values connectable | No |
| Alarms | |
| Diagnostic alarm | No |
| Diagnostic messages | |
| 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 |
| Monitoring of the supply voltage (PWR-LED) | Yes; Green LED |
| Channel status display | Yes; Green LED |
| for channel diagnostics | No |
| for module diagnostics | No |
| - | |
| Potential separation | |
| Potential separation channels | No |
| • between the channels | No |
| • between the channels, in groups of | 8 |
| between the channels and backplane bus | Yes |
| solation | |
| Isolation tested with | 707 V DC (type test) |
| Decentralized operation | |
| | |

| Prioritized startup | Yes |
|---------------------|---|
| Dimensions | |
| Width | 25 mm |
| Height | 147 mm |
| Depth | 129 mm |
| Weights | |
| Weight, approx. | 280 g |
| Other | |
| Note: | Supplied incl. 40-pole push-in front connectors |
| last modified: | 07/17/2018 |