

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



Figure similar

| General information | |
|---|-------------------|
| HW functional status | FS01 |
| Firmware version | V2.0.0 |
| <ul style="list-style-type: none"> FW update possible | Yes |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated as of version | V12 / V12 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated as of version | V5.5 SP3 / - |
| <ul style="list-style-type: none"> PROFIBUS as of GSD version/GSD revision | V1.0 / V5.1 |
| <ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision | V2.3 / - |
| Operating mode | |
| <ul style="list-style-type: none"> DQ | Yes |
| <ul style="list-style-type: none"> DQ with energy-saving function | No |
| <ul style="list-style-type: none"> PWM | No |
| <ul style="list-style-type: none"> Oversampling | No |

| | |
|--|--|
| • MSO | Yes |
| Output voltage | |
| Rated value (AC) | 230 V; 120/230 V AC, 50/60 Hz |
| Power | |
| Power available from the backplane bus | 0.9 W |
| Power loss | |
| Power loss, typ. | 10.8 W |
| Digital outputs | |
| Type of digital output | Triac |
| Number of digital outputs | 8 |
| Current-sourcing | Yes |
| Digital outputs, parameterizable | Yes |
| Short-circuit protection | No |
| • built-in fuse | 6.3 A melting fuse, slow-blow |
| Size of motor starters according to NEMA, max. | 5 |
| 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 |
| Isochronous mode | |
| Isochronous operation (application synchronized up to terminal) | No |
| Interrupts/diagnostics/status information | |
| Diagnostics function | No |
| Substitute values connectable | Yes |
| Alarms | |
| • Diagnostic alarm | No |
| • Maintenance interrupt | No |
| Diagnostic messages | |
| • Monitoring the supply voltage | No |
| • Wire-break | No |
| • Short-circuit | No |
| Diagnostics indication LED | |
| • RUN LED | Yes; Green LED |
| • ERROR LED | Yes; Red 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 |
| • 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 | |
| Suitable for safety functions | No |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | 0 °C |
| • horizontal installation, max. | 60 °C |

- vertical installation, min. 0 °C
- vertical installation, max. 40 °C

Decentralized operation

Prioritized startup Yes

Dimensions

Width 35 mm
Height 147 mm
Depth 129 mm

Weights

Weight, approx. 290 g

last modified: 08/27/2019