## SIEMENS



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 |  |
| :---: | :---: |
| Product type designation | DQ 8x230 V AC/2A ST (triac) |
| HW functional status | From FS01 |
| Firmware version <br> - FW update possible | $\begin{aligned} & \text { V2.2.0 } \\ & \text { Yes } \end{aligned}$ |
| Product function |  |
| - I\&M data <br> - Isochronous mode <br> - Prioritized startup | Yes; I\&M0 to I\&M3 <br> No <br> Yes |
| Engineering with |  |
| - STEP 7 TIA Portal configurable/integrated from version <br> - STEP 7 configurable/integrated from version <br> - PROFIBUS from GSD version/GSD revision <br> - PROFINET from GSD version/GSD revision | $\begin{aligned} & \text { V12 / V12 } \\ & \text { V5.5 SP3 / - } \\ & \text { V1.0 / V5.1 } \\ & \text { V2.3 / - } \end{aligned}$ |
| Operating mode |  |
| - DQ <br> - DQ with energy-saving function <br> - PWM <br> - Oversampling <br> - MSO <br> - Integrated operating cycle counter | Yes <br> No <br> No <br> No <br> Yes <br> Yes; FW V2.2.0 or higher |
| output voltage / header |  |
| 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 <br> - built-in fuse | No <br> 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.


## Output current

- for signal "1" rated value
- for signal "1" permissible range, min.
- for signal "1" permissible range, max.
- for signal " 0 " residual current, max.

Output delay with resistive load

- "0" to "1", max.

AC cycle

- "1" to "0", max.

1 AC cycle
Parallel switching of two outputs

- for logic links

No

- for uprating
- for redundant control of a load

No
witching frequency

- with resistive load, max.

Yes

- with inductive load, max.
- on lamp load, max.


## 10 Hz

0.5 Hz

Total current of the outputs
Total current of the outputs
$\bullet$ Current per channel, max.

- Current per group, max.
- Current per module, max.

Cable length

- shielded, max.
- unshielded, max.


## 1 Hz

2 A; see additional description in the manual
2 A ; see additional description in the manual
10 A ; see additional description in the manual

1000 m
600 m
Interrupts/diagnostics/status information

| Diagnostics function | No |
| :--- | :--- |
| Substitute values connectable | Yes |

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 |
| 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 3100 V DC

Standards, approvals, certificates
Suitable for safety functions
No

## Ambient condifitions

Ambient temperature during operation
$\bullet$ horizontal installation, min. $0^{\circ} \mathrm{C}$

- horizontal installation, max.
- vertical installation, min.
- vertical installation, max.
Dimensions

| Width | 35 mm |
| :--- | :--- |
| Height | 147 mm |
| Depth | 129 mm |
| Weights |  |

290 g

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