## SIEMENS

Data sheet
6ES7522-5FH00-0AB0
SIMATIC S7-1500, digital output module DQ $16 \times 230 \mathrm{~V} \mathrm{AC/1} \mathrm{~A} \mathrm{ST;}$ TRIAC; 16 channels in groups of 2; 2 A per group; Substitute value: Front connector (screw terminals or push-in) to be ordered separately

General information

Product type designation
HW functional status
Firmware version

- FW update possible
roduct function
- I\&M data
- Isochronous mode
- Prioritized startup

Engineering with

- STEP 7 TIA Portal configurable/integrated from version
- STEP 7 configurable/integrated from version
- PROFIBUS from GSD version/GSD revision
- PROFINET from GSD version/GSD revision

DQ 16x230VAC/1A ST (Triac)
FS01
V1.0.0
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 | V13 SP1 / - |
| - 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 |

$\begin{array}{ll}\text { - Oversampling } & \text { No } \\ \text { - MSO } & \text { Yes }\end{array}$

## Output voltage

Rated value (AC)
230 V; 120/230 V AC, $50 / 60 \mathrm{~Hz}$

| Power |  |
| :---: | :---: |
| Power available from the backplane bus | 1.2 W |
| Power loss |  |
| Power loss, typ. | 11.1 W |
| Digital outputs |  |
| Type of digital output | Triac |
| Number of digital outputs | 16 |
| Current-sinking | Yes |
| 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. | 4 |
| Switching capacity of the outputs |  |
| with resistive load, max. <br> - on lamp load, max. | $\begin{aligned} & 1 \mathrm{~A} \\ & 50 \mathrm{~W} \end{aligned}$ |
| Output voltage |  |
| $\bullet$ for signal "1", min. | L1 (-1.5 V) at maximum output current; $\mathrm{L} 1(-8.5 \mathrm{~V})$ at minimum output current |
| Output current |  |
| - for signal "1" rated value <br> - for signal "1" permissible range, min. <br> - for signal "1" permissible range, max. <br> - for signal " 0 " residual current, max. | $\begin{aligned} & 1 \mathrm{~A} \\ & 10 \mathrm{~mA} \\ & 15 \mathrm{~A} ; \text { max. } 1 \mathrm{AC} \text { cycle } \\ & 2 \mathrm{~mA} \end{aligned}$ |
| Output delay with resistive load |  |
| - "0" to "1", max. <br> - "1" to "0", max. | 1 AC cycle 1 AC cycle |
| Parallel switching of two outputs |  |
| - for logic links <br> - for uprating <br> - for redundant control of a load | No <br> No <br> Yes |
| Switching frequency |  |
| with resistive load, max. <br> - with inductive load, max. <br> - on lamp load, max. | $\begin{aligned} & 10 \mathrm{~Hz} \\ & 0.5 \mathrm{~Hz} \\ & 1 \mathrm{~Hz} \end{aligned}$ |
| Total current of the outputs |  |
| - Current per channel, max. | 1 A ; see additional description in the manual |

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


## Cable length

- shielded, max. 1000 m
- unshielded, max.

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

| - shielded, max. <br> - unshielded, max. | $\begin{aligned} & 1000 \mathrm{~m} \\ & 600 \mathrm{~m} \end{aligned}$ |
| :---: | :---: |
| Interrupts/diagnostics/status information |  |
| Diagnostics function | No |
| Substitute values connectable | Yes |
| Alarms |  |
| - Diagnostic alarm <br> - Maintenance interrupt | No <br> No |
| Diagnoses |  |
| - Monitoring the supply voltage <br> - Wire-break <br> - Short-circuit | No <br> No <br> No |
| Diagnostics indication LED |  |
| - RUN LED <br> - ERROR LED <br> - Monitoring of the supply voltage (PWR-LED) <br> - Channel status display <br> - for channel diagnostics <br> - for module diagnostics | Yes; green LED <br> Yes; red LED <br> No <br> Yes; green LED <br> No <br> Yes; red LED |
| Potential separation |  |
| Potential separation channels |  |
| - between the channels <br> - between the channels, in groups of <br> - between the channels and backplane bus | $\begin{aligned} & \text { No } \\ & 2 \\ & \text { Yes } \end{aligned}$ |
| Permissible potential difference |  |
| between different circuits | 250 V AC between the channels and the backplane bus; 500 V $A C$ between the channels |
| Isolation |  |
| Isolation tested with | 3100 V DC |
| Standards, approvals, certificates |  |
| Suitable for safety functions | No |
| Ambient conditions |  |
| Ambient temperature during operation |  |
| - horizontal installation, min. <br> - horizontal installation, max. <br> - vertical installation, min. <br> - vertical installation, max. | $\begin{aligned} & 0^{\circ} \mathrm{C} \\ & 60^{\circ} \mathrm{C} \\ & 0^{\circ} \mathrm{C} \\ & 60^{\circ} \mathrm{C} \end{aligned}$ |


| Dimensions |  |
| :--- | :--- |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |
| Weights |  |
| Weight, approx. | 310 g |
| last modified: | $08 / 24 / 2020 \quad \boldsymbol{\Omega}$ |

