## **SIEMENS**

## Data sheet

## 6ES7522-5FH00-0AB0

SIMATIC S7-1500, digital output module DQ 16x230 V AC/1 A 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	
HW functional status	FS01
Firmware version	V1.0.0
• FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Prioritized startup	Yes
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V13 SP1 / -
<ul> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 / -
<ul> <li>PROFIBUS as of GSD version/GSD revision</li> </ul>	V1.0 / V5.1
<ul> <li>PROFINET as of GSD version/GSD revision</li> </ul>	V2.3 / -
Operating mode	
• DQ	Yes
<ul> <li>DQ with energy-saving function</li> </ul>	No
• PWM	No
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	1.2 W
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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	No
• built-in fuse	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.	1 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	
<ul> <li>for signal "1" rated value</li> </ul>	1 A
<ul> <li>for signal "1" permissible range, min.</li> </ul>	10 mA
<ul> <li>for signal "1" permissible range, max.</li> </ul>	15 A; max. 1 AC cycle
<ul> <li>for signal "0" residual current, max.</li> </ul>	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
<ul> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	
• with resistive load, max.	10 Hz
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs	
<ul> <li>Current per channel, max.</li> </ul>	1 A; see additional description in the manual
<ul> <li>Current per group, max.</li> </ul>	2 A; see additional description in the manual
• Current per module, max.	10 A; see additional description in the manual

Cable length	
<ul> <li>shielded, max.</li> </ul>	1 000 m
• unshielded, max.	600 m
Isochronous mode	NL.
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	
<ul> <li>Monitoring the supply voltage</li> </ul>	No
• Wire-break	No
Short-circuit	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	No
<ul> <li>Channel status display</li> </ul>	Yes; Green LED
<ul> <li>for channel diagnostics</li> </ul>	No
<ul> <li>for module diagnostics</li> </ul>	Yes; Red LED
Potential separation	
Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	2
<ul> <li>between the channels and backplane bus</li> </ul>	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	0 °C
horizontal installation, min.	
• horizontal installation, max.	60 °C
<ul> <li>vertical installation, min.</li> </ul>	0°0

60 °C
35 mm
147 mm
129 mm
310 g

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