## **SIEMENS**

## Data sheet

6ES7522-5FH00-0AB0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 16 X 230VAC / 1A ST,TRIAC; 16 CHANNELS IN GROUPS OF 2, 2A PER GROUP; SUBSTITUTE VALUE



General information	
Product type designation	DQ 16x230VAC/1A ST (Triac)
HW functional status	FS01
Firmware version	V1.0.0
<ul> <li>FW update possible</li> </ul>	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
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)	120/230V AC, 50/60 Hz
D	
Power Power available from the backplane bus	1.2 W
Tower available from the backplane bas	1.2 **
Power loss	
Power loss, typ.	11.1 W
Digital outputs	
Number of digital outputs	16
Current-sinking	Yes
Current-sourcing	Yes
Short-circuit protection	No
Switching capacity of the outputs	
<ul><li>with resistive load, max.</li></ul>	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	
• for signal "1" rated value	1 A
• for signal "1" permissible range, min.	10 mA
• for signal "1" permissible range, max.	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	
Current per channel, max.	1 A; see additional description in the manual
<ul> <li>Current per group, max.</li> </ul>	2 A; see additional description in the manual
<ul> <li>Current per module, max.</li> </ul>	10 A; see additional description in the manual
Triac outputs	
Size of motor starters according to NEMA, max.	4
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		
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		
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	No		
<ul> <li>Channel status display</li> </ul>	Yes; Green LED		
• for channel diagnostics	No		
• for module diagnostics	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		
Ambient conditions			
Ambient temperature during operation			
<ul> <li>horizontal installation, min.</li> </ul>	0 °C		
<ul> <li>horizontal installation, max.</li> </ul>	60 °C		
<ul> <li>vertical installation, min.</li> </ul>	0 °C		
<ul><li>vertical installation, max.</li></ul>	60 °C		
Decentralized operation			
Prioritized startup	Yes		
Dimensions			

Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	310 g	

last modified: 08/20/2016