## **SIEMENS**

## Data sheet

6ES7522-5FF00-0AB0

SIMATIC S7-1500, Digital output module DQ 8xAC 230V/2A ST; TRIAC; 8 channels in groups of 1; 2 A per group; Substitute value



General information		
Product type designation	DQ 8x230 V AC/2A ST (triac)	
HW functional status	FS01	
Firmware version	V2.0.0	
<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>	V12 / V12	
<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	
<ul><li>Oversampling</li></ul>	No	
• MSO	Yes	

Output voltage				
Rated value (AC)	230 V; 120/230 V AC, 50/60 Hz			
Dawer				
Power Power available from the backplane bus	0.9 W			
Tower aramable from the basispianie bas	0.0 11			
Power loss				
Power loss, typ.	10.8 W			
Digital outputs				
Type of digital output	Triac			
Number of digital outputs	8			
Current-sourcing	Yes			
Short-circuit protection	No			
Switching capacity of the outputs				
<ul><li>with resistive load, max.</li></ul>	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			
<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			
• 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			
<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.	5			
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				
<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			
Channel status display	Yes; Green LED			
• for channel diagnostics	No			
• for module diagnostics	Yes; Red LED			
Potential separation				
Potential separation channels				
Potential separation channels  • between the channels	Yes			
Potential separation channels  • between the channels  • between the channels, in groups of	1			
Potential separation channels  • between the channels				
Potential separation channels  • between the channels  • between the channels, in groups of	1			
Potential separation channels  • between the channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference	1 Yes Yes			
Potential separation channels  • between the channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1	1 Yes			
Potential separation channels  • between the channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V			
Potential separation channels	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V			
Potential separation channels	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels			
Potential separation channels          • between the channels, in groups of         • between the channels and backplane bus         • Between the channels and load voltage L1  Permissible potential difference between different circuits  Isolation Isolation tested with	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels			
Potential separation channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference between different circuits  Isolation Isolation tested with  Ambient conditions	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels			
Potential separation channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference between different circuits  Isolation Isolation tested with  Ambient conditions Ambient temperature during operation	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels  3 100 V DC			
Potential separation channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference between different circuits  Isolation Isolation tested with  Ambient conditions Ambient temperature during operation  • horizontal installation, min.	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels  3 100 V DC			
Potential separation channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference between different circuits  Isolation Isolation tested with  Ambient conditions  Ambient temperature during operation  • horizontal installation, min.  • horizontal installation, max.	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels  3 100 V DC  0 °C 60 °C			
Potential separation channels  • between the channels, in groups of  • between the channels and backplane bus  • Between the channels and load voltage L1  Permissible potential difference between different circuits  Isolation Isolation tested with  Ambient conditions  Ambient temperature during operation  • horizontal installation, min.  • horizontal installation, max.  • vertical installation, min.	1 Yes Yes  250 V AC between the channels and the backplane bus; 500 V AC between the channels  3 100 V DC  0 °C 60 °C 0 °C			

Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	290 g	
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