SIEMENS

Data sheet

6ES7522-5FH00-0AB0

SIMATIC S7-1500, Digital output module DQ 16xAC 230V/1A ST; TRIAC; 16 channels in groups of 2; 2 A per group; Substitute value



General information		
Product type designation	DQ 16x230VAC/1A ST (Triac)	
HW functional status	FS01	
Firmware version	V1.0.0	
• FW update possible	Yes	
Product function		
● I&M data	Yes; I&M0 to I&M3	
Engineering with		
 STEP 7 TIA Portal configurable/integrated as of version 	V13 SP1 / -	
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -	
 PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1	
 PROFINET as of GSD version/GSD revision 	V2.3 / -	
Operating mode		
• DQ	Yes	
 DQ with energy-saving function 	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
	1.2 11
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
Short-circuit protection	No
• built-in fuse	6.3 A melting fuse, slow-blow
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	
 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
 for signal "0" residual current, max. 	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
 for redundant control of a load 	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.	1 A; see additional description in the manual
• Current per group, max.	2 A; see additional description in the manual
Current per module, max.	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	Na
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
 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 	No
 between the channels, in groups of 	2
 between the channels and backplane bus 	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	
 horizontal installation, min. 	0°0
 horizontal installation, max. 	60 °C
 vertical installation, min. 	0 °C
• vertical installation, max.	60 °C
Decentralized operation	
Prioritized startup	Yes

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