SIEMENS

Data sheet

6ES7522-5FF00-0AB0

SIMATIC S7-1500, digital output module DQ 8x230 V AC/2 A ST; TRIAC; 8 channels in groups of 1; 2 A per group; Substitute value: Front connector (screw terminals or push-in) to be ordered separately



Figure similar

General information		
Product type designation	DQ 8x230 V AC/2A ST (triac)	
HW functional status	FS01	
Firmware version	V2.0.0	
• FW update possible	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 as of version 	V12 / V12	
 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
0.4	
Output voltage Rated value (AC)	230 V; 120/230 V AC, 50/60 Hz
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	10.8 W
Digital outputs	
Type of digital output	Triac
Number of digital outputs	8
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.	5
Switching capacity of the outputs	
 with resistive load, max. 	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
 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 group, max. 2 A; see additional description in the manual • Current per module, max. 10 A; see additional description in the manual Cable length 1000 m • shielded, max. 600 m Plagnostics/status information No Substitute values connectable Yes Aiams 0 • Diagnostic messages No • Monitoring the supply voltage No • Wire-break No • Short-circuit No • Diagnostic alarm No • Wire-break No • Wire-break No • Wire-break No • Obatoring the supply voltage No • RUN LED Yes; green LED • ERROR LED Yes; green LED • Channel status display Yes; green LED • for channel diagnostics No • for module diagnostics Yes; green LED • between the channels Yes; green LED • between the channels Yes; green LED • between the channels in groups of 1 • between the channels in groups of 1 • between the channels in groups of 1 • between the channels and load voltage L1 Yes Permissible potential difference 250 V AC betwe	• Current per channel, max.	2 A; see additional description in the manual
 Current per module, max. 10 A: see additional description in the manual Cable length shielded, max. 1000 m unshielded, max. 600 m Interrupts/diagnostics/status information Diagnostic function No Substitute values connectable Yes Alarms Olagnostic information No Substitute values connectable Yes Maintenance interrupt No Maintenance interrupt No Substitute values connectable No Maintenance interrupt No Maintenance interrupt No Short-circuit No Short-circuit No Channel status display Yes; green LED Yes; green LED Yes; green LED No Channel status display Yes; green LED Yes; green LED No Channel status display Yes; green LED Yes; green LED Yes; green LED Yes; red LED Potential separation Potential separation channels Yes Between the channels Yes Between the channels and backplane bus Yes Between the		· · · · · · · · · · · · · · · · · · ·
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Ambient conditions Ambient temperature during operation • horizontal installation, min. 0 °C		Ne
Ambient temperature during operation • horizontal installation, min. 0 °C		NO
horizontal installation, min. 0 °C		
• horizontal installation max	 horizontal installation, min. 	
	 horizontal installation, max. 	60 °C

vertical installation, min.vertical installation, max.	0 °C 40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	290 g
last modified:	04/10/2020