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



Figure similar

DQ 8x230 V AC/2A ST (triac)
FS01
V2.0.0
Yes
Yes; I&M0 to I&M3
V12 / V12
V5.5 SP3 / -
V1.0 / V5.1
V2.3 / -
Yes
No
No

 Oversampling MSO Yes 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				
Power Power loss Power loss Power loss, typ. 230 V; 120/230 V AC, 50/60 Hz 230 V; 120/230 V AC, 50/60 Hz 10.8 W				
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Power loss, typ. 10.8 W				
Digital outputs				
Digital outputs				
Type of digital output Triac				
Number of digital outputs 8				
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. 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 channel, max. 2 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.	5
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
anomolaca, maxi	
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
 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	Yes
 between the channels, in groups of 	1
 between the channels and backplane bus 	Yes
Between the channels and load voltage L1	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 °C
 horizontal installation, max. 	60 °C
vertical installation, min.	0 °C
 vertical installation, max. 	40 °C

Decentralized operation			
Prioritized startup	Yes		
Dimensions			
Width	35 mm		
Height	147 mm		
Depth	129 mm		
Weights			
Weight, approx.	290 g		
last modified:	06/21/2018		