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	From FS01
Firmware version	V2.2.0
 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 from version 	V12 / V12
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
 PROFINET from GSD version/GSD revision 	V2.3 / -
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	No
• PWM	No
Oversampling	No
• MSO	Yes
 Integrated operating cycle counter 	Yes; FW V2.2.0 or higher
output voltage / header	
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	50 W
• 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
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	Yes
Alarms	
	No
Diagnostic alarm	
Maintenance interrupt Diagnoses	Yes; maintenance alarm for switching cycle counter
0	No
 Monitoring the supply voltage Wire-break 	No
	No
Short-circuit	No
Diagnostics indication LED	Very groon 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 Vice red LED
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
Standards, approvals, certificates	
Suitable for safety functions	No
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
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	290 g

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