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	V2.3.0	
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 V2.3.0 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	
• 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	000 m
	No
Diagnostics function	No
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	No
Maintenance interrupt	Yes; maintenance alarm for switching cycle counter
Diagnoses	
 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	Vac
	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
Ecological footprint	Vac
environmental product declaration	Yes
Global warming potential	
 global warming potential, (total) [CO2 eq] 	43.8 kg

 global warming potential, (during production) [CO2 eq] 	9.5 kg
— global warming potential, (during operation) [CO2 eq]	34.5 kg
 global warming potential, (after end of life cycle) [CO2 eq] 	-0.231 kg
product functions / security / header	
signed firmware update	No
data integrity	No
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-25 °C; From FS05
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-25 °C; From FS05
 vertical installation, max. 	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	290 g

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