SIEMENS

Data sheet

6ES7522-5FH00-0AB0



SIMATIC S7-1500, digital output module DQ 16x230 V AC/1 A ST; TRIAC; 16 channels in groups of 2; 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 16x230VAC/1A ST (Triac)	
HW functional status	From FS01	
Firmware version	V 1.2.0	
 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 	V13 SP1 / -	
 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 V1.2.0 or higher	
output voltage / header		
Rated value (AC)	230 V; 120/230 V AC, 50/60 Hz	
Power		
Power available from the backplane bus	1.2 W	
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	
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.	4	
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
- 101 Oignate 1 , film.	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
Cable length	
shielded, max.	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
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	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
253011 dillototte diffound	between the channels
Isolation	
Isolation tested with	3 100 V DC
Standards, approvals, certificates	
	No
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

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

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