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

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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	
.	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	10 Hz	
with resistive load, max.		
with inductive load, max.	0.5 Hz 1 Hz	
on lamp load, max. Total current of the outputs	I NZ	
Current or the outputs Current per channel, max.	1 A; see additional description in the manual	
Current per channel, max. Current per group, max.	2 A; see additional description in the manual	
Current per group, max. 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	165	
Diagnostic alarm	No	
Maintenance interrupt	Yes; maintenance alarm for switching cycle counter	
Diagnoses	res, maintenance alarm or switching cycle counter	
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	
	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	0.10	
horizontal installation, min.	0°C	
horizontal installation, max.	60 °C	
vertical installation, min.	0 °C	
vertical installation, max.	40 °C	
Dimensions		

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

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