SIEMENS

Data sheet

6ES7522-5EH00-0AB0



SIMATIC S7-1500 Digital output module DQ16x24..48 V UC/125 V DC/0.5 A ST; 16 channels in groups of 1; 0.5 A per group; Substitute value: observe derating Front connector (screw terminals or push-in) to be ordered separately

General information	
Product type designation	DQ 16x24 48 V UC/125 V DC/0.5 A ST
HW functional status	FS02
Firmware version	V1.0.0
• 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

 Cam control (switching at comparison values) 	No
Oversampling	No
MSO	Yes
Integrated operating cycle counter	No
Output voltage	
Rated value (DC)	24 V; 48 V, 125 V
Rated value (AC)	24 V; 48 V (50 - 60 Hz)
Power	
Power available from the backplane bus	2 W
Power loss	
Power loss, typ.	3.8 W
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	16
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable Limitation of inductive shutdown voltage to	200 V (suppressor diode)
Controlling a digital input	Yes
Switching capacity of the outputs	
with resistive load, max.	0.5 A
 on lamp load, max. 	40 W; At 125 V DC, 10 W at 48 V UC, 5 W at 24 V UC
Output voltage	
• for signal "1", min.	L+ (-1.0 V)
Output current	2. (1.0.0)
for signal "1" rated value	0.5 A
 for signal "1" permissible range, max. 	0.6 A
Output delay with resistive load	
• "0" to "1", max.	5 ms
• "1" to "0", max.	5 ms
Parallel switching of two outputs	
for logic links	Yes
for uprating	No
 for redundant control of a load 	Yes
Switching frequency	
with resistive load, max.	25 Hz
 with resistive load, max. with inductive load, max. 	0.5 Hz
 on lamp load, max. 	10 Hz
Total current of the outputs	
Current per channel, max.	0.5 A
Current per group, max.	0.5 A
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• Current per module, max.	8 A	
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	No	
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	
	No	
Monitoring of the supply voltage (PWR-LED) Channel status display	Yes; green LED	
Channel status display	No	
• for channel diagnostics	Yes; red LED	
 for module diagnostics 	res, 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	
Permissible potential difference		
Permissible potential difference between different circuits	125 V DC/48 V AC	
Isolation		
Isolation tested with	2 000 V DC	
Standards, approvals, certificates		
Suitable for safety functions	No	
Suitable for safety-related tripping of standard	Yes; From FS02	
modules		
Highest safety class achievable for safety-related tripping of standard modules		
 Performance level according to ISO 13849-1 	PL d	
 Category according to ISO 13849-1 	Cat. 3	
 SILCL according to IEC 62061 	SILCL 2	
Ambient conditions		
Ambient temperature during operation		

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 horizontal installation, min. 	0°0
 horizontal installation, max. 	60 °C
 vertical installation, min. 	0°0
 vertical installation, max. 	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	230 g
last modified:	10/13/2020

