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 as of version 	V13 SP1 / -
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1
 PROFINET as of 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	Yes
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	
 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 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

 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	
Diagnostic messages		
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	
for channel diagnostics	No	
 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	
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	Νο	
Suitable for safety-related tripping of standard	Yes; From FS02	
modules	163, 110111 302	
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 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.	230 g
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