SIEMENS

Data sheet

6ES7522-1BH10-0AA0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE, DQ 16 X 24VDC/0.5A BA; 16 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; INCL. FRONT CONNECTOR PUSH-IN



General information	
Product type designation	DQ 16x24VDC/0.5A BA
HW functional status	FS01
Firmware version	V1.0.0
 FW update possible 	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V13 / V13
 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
Oversampling	No
• MSO	Yes

Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes; through internal protection with 7 A per group
Input current Current consumption, max.	30 mA
Current consumption, max.	30 IIIA
Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.15 W
Dawar laga	
Power loss Power loss, typ.	2.2 W
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Digital outputs	
Number of digital outputs	16
Current-sourcing	Yes
Short-circuit protection	Yes
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	12 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
• for signal "1" rated value	0.5 A
• for signal "1" permissible range, max.	0.5 A
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	100 µs
• "1" to "0", max.	500 μs
Parallel switching of two outputs	
• for logic links	Yes
• for uprating	No
 for redundant control of a load 	Yes
Switching frequency	

Substitute values connectable	No		
Diagnostics function	No		
Substitute values connectable	No		
Alarms			
Diagnostic alarm	No		
Diagnostic messages			
Monitoring the supply voltage	No		
Wire-break	No		
Short-circuit	No		
Group error	No		
Diagnostics indication LED			
• RUN LED	Yes; Green LED		
• ERROR LED	Yes; Red LED		
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED		
Channel status display	Yes; Green LED		
for channel diagnostics	No		
• for module diagnostics	No		
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Potential separation			
Potential separation channels			
• between the channels	No		
 between the channels, in groups of 	8		
• between the channels and backplane bus	Yes		
Isolation			
Isolation Isolation tested with	707 V DC (type test)		
isolation tested with	101 V DO (type test)		
	Decentralized operation		
Decentralized operation			
Decentralized operation Prioritized startup	Yes		
<u>`</u>	Yes		

Width	25 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	230 g
Other	
Note:	Supplied incl. 40-pole push-in front connectors
last modified:	12/06/2016