SIEMENS

Data sheet

6ES7522-1BH10-0AA0



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

Product type designation		
General information		
HW functional status	E01	
Firmware version	V1.0.0	
Product function		
• I&M data	Yes	
Engineering with		
 STEP 7 TIA Portal can be configured/integrated as of version 	V13 / V13	
 STEP 7 can be configured/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		
• 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	
Power		
Power available from the backplane bus	1.15 W	

Power losses		
Power loss, typ.	2.2 W	
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 2 outputs		
• for logic links	Yes	
 for increased power 	No	
• for redundant control of a load	Yes	
Switching frequency		
• with resistive load, max.	100 Hz	
• with inductive load, max.	0.5 Hz; to IEC 947-5-1, DC-13	
• on lamp load, max.	10 Hz	
Aggregate current of the outputs		
Current per channel, max.	0.5 A; see additional description in the manual	
• Current per group, max.	4 A; see additional description in the manual	
Current per module, max.	8 A; see additional description in the manual	
Cable length		
• shielded, max.	1 000 m	
• Unshielded, max.	600 m	
nterrupts/diagnostics/status information		
Substitute values connectable	No	

Alarms	
Diagnostic alarm	No
Diagnostic messages	
Diagnostics	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
MAINT LED	No
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED
Channel status display	Yes; Green LED
Galvanic isolation	
Electrical isolation channels	
between the channels	No
between the channels, in groups of	8
 between the channels and the backplane bus 	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation checked with	707 V DC (type test)
Decentralized operation	
Prioritized startup	Yes
Dimensions	
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:	12.03.2015