## **SIEMENS**

## Data sheet

6ES7522-1BL00-0AB0

\*\*\*SPARE PART\*\*\* SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 32 X 24VDC/0.5A; 32 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE



Figure similar

General information	
Product type designation	DQ 32x24VDC/0.5A ST
HW functional status	E01
Firmware version	V2.0.0
<ul> <li>FW update possible</li> </ul>	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal configurable/integrated as of	V12 / V12
version	
<ul> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 / -
<ul> <li>PROFIBUS as of GSD version/GSD revision</li> </ul>	V1.0 / V5.1
<ul> <li>PROFINET as of GSD version/GSD revision</li> </ul>	V2.3 / -
Operating mode	
• MSO	Yes
Complexiality	
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
	res, through mental protection with 7 77 per group
Input current	
Current consumption, max.	60 mA
Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.1 W
Power loss	
Power loss, typ.	3.5 W
Digital outputs	
Number of digital outputs	32
Current-sourcing	Yes
Short-circuit protection	Yes; Clocked electronically
<ul> <li>Response threshold, typ.</li> </ul>	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	
• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz; According to IEC 60947-5-1, DC-13

• on lamp load, max.	10 Hz
Total 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.	16 A; see additional description in the manual
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	Voo
Isochronous operation (application synchronized up to terminal)	Yes
Execution and activation time (TCO), min.	70 µs
Bus cycle time (TDP), min.	250 µs
200 cy 0.0 a.m.c (+2.+ ),	230 po
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	V
Diagnostic alarm	Yes
Diagnostic messages	V.
<ul> <li>Monitoring the supply voltage</li> </ul>	Yes
Wire-break	No
Short-circuit	Yes
Fuse blown	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
<ul><li>Monitoring of the supply voltage (PWR-LED)</li></ul>	Yes; Green LED
<ul> <li>Channel status display</li> </ul>	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	8
between the channels and backplane bus	Yes
1. 1. 2.	
Isolation Isolation tested with	707 V DC (type test)
isolation tested with	101 V DO (type test)
Decentralized operation	
Prioritized startup	Yes
Dimensions	

Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		

280 g

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Weight, approx.