## **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	
<ul> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V13 / V13
<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	
• DQ	Yes
<ul> <li>DQ with energy-saving function</li> </ul>	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
Include a summer t	
Input current Current consumption, max.	30 mA
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Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.15 W
Power loss Power loss, typ.	2.2 W
Fower loss, typ.	2.2 VV
Digital outputs	
Number of digital outputs	16
Current-sourcing	Yes
Short-circuit protection	Yes
<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
<ul> <li>on lamp load, max.</li> </ul>	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	
<ul> <li>for signal "1" rated value</li> </ul>	0.5 A
<ul> <li>for signal "1" permissible range, max.</li> </ul>	0.5 A
<ul> <li>for signal "0" residual current, max.</li> </ul>	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
<ul> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	

Dimensions	
Decentralized operation Prioritized startup	Yes
Isolation Isolation tested with	707 V DC (type test)
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	8
between the channels	No
Potential separation channels	
Potential separation	
<ul> <li>for module diagnostics</li> </ul>	No
<ul> <li>for channel diagnostics</li> </ul>	No
<ul> <li>Channel status display</li> </ul>	Yes; Green LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; Green LED
• ERROR LED	Yes; Red LED
• RUN LED	Yes; Green LED
Diagnostics indication LED	
• Group error	No
Short-circuit	No
• Wire-break	No
Monitoring the supply voltage	No
Diagnostic messages	N
Diagnostic alarm	No
Alarms	
Substitute values connectable	No
Diagnostics function	No
Interrupts/diagnostics/status information	
to terminal)	
Isochronous operation (application synchronized up	No
Isochronous mode	
<ul> <li>unshielded, max.</li> </ul>	
• shielded, max.	1 000 m 600 m
Cable length	1 000 m
Current per module, max.	8 A; see additional description in the manual
Current per group, max.	4 A; see additional description in the manual
Current per channel, max.	0.5 A; see additional description in the manual
Total current of the outputs	0.5. As and additional description in the manual
on lamp load, max.  Tatal surrent of the outputs	10 Hz
• with inductive load, max.	0.5 Hz; According to IEC 60947-5-1, DC-13
• with resistive load, max.	100 Hz

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