SIEMENS

Data sheet

6ES7522-1BL10-0AA0

SIMATIC S7-1500, Digital output module, DQ32x24 V DC/0.5A BA, 32 channels in groups of 8, 4 A per group incl. push-in front connector



General information	
Product type designation	DQ 32x24VDC/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.	60 mA
Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.15 W
Power loss	
Power loss, typ.	3.8 W
Digital outputs	Transista
Type of digital output Number of digital outputs	Transistor 32
Current-sourcing	Yes
Short-circuit protection	Yes
	1 A
Response threshold, typ. 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 • Current per channel. max. 0.5 A; see additional description in the manual • Current per channel. max. 4 A; see additional description in the manual • Current per module, max. 16 A; see additional description in the manual • Current per module, max. 600 m • shielded, max. 6000 m • shielded, max. 6000 m • unshielded, max. 6000 m • unshielded, max. 6000 m Isochronous operation (application synchronized up to terminal) No Diagnostics function No Substitute values connectable No Alarms • • Montoring the supply voltage No • Short circuit No • Short circuit No • Group error No Diagnostics indication LED Yes; Green LED • ErROR LED Yes; Green LED • for nohanel diagnostics No		
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	• ERROR LED	Yes; Red LED
• for channel diagnostics No • for module diagnostics No Potential separation No Potential separation channels No • between the channels No • between the channels, in groups of 8 • between the channels and backplane bus Yes Isolation 707 V DC (type test) Decentralized operation No	 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED
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Isolation Isolation tested with Decentralized operation	 between the channels, in groups of 	8
Isolation tested with 707 V DC (type test) Decentralized operation	 between the channels and backplane bus 	Yes
Decentralized operation	Isolation	
	Isolation tested with	707 V DC (type test)
Prioritized startup Yes	· · · ·	
	Prioritized startup	Yes

Dimensions	
Width	25 mm
Height	147 mm
Depth	129 mm
Weights Weight, approx.	280 g
Other	
Note:	Supplied incl. 40-pole push-in front connectors
last modified:	01/29/2018