SIEMENS

Data sheet

6ES7522-1BL10-0AA0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE, DQ 32 X 24VDC/0.5A; 32 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; INCL. FRONT CONNECTOR PUSH-IN



General information	
Product type designation	DQ 32 x 24 V DC / 0.5 A BA
HW functional status	E01
Firmware version	V1.0.0
Product function	
● I&M data	Yes
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	
• 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
Power	
Power available from the backplane bus	1.15 W
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Power loss	
Power loss, typ.	3.8 W
Digital outputs	
Number of digital outputs	32
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	
 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
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Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/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
Potential separation Potential separation channels	
·	No
between the channels	
• between the channels, in groups of	8 Yes
 between the channels and backplane bus 	Tes
Permissible potential difference	_
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation tested with	707 V DC (type test)
Decentralized operation	
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:	18.12.2015