SIEMENS

Data sheet

6ES7522-1BL10-0AA0



SIMATIC S7-1500, digital output module, DQ32xDC 24V/0.5A BA, 32 channels in groups of 8, 4 A per group; the module supports the safetyoriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 3 / PL d according to EN ISO 13849-1:2015. delivery incl. front connector push-in

General information		
Product type designation	DQ 32x24VDC/0.5A BA	
HW functional status	From FS01	
Firmware version	V1.0.0	
• FW update possible	Yes	
Product function		
• I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Prioritized startup	Yes	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V13 / V13	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1	
 PROFINET from 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)	19.2 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 / header		
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		
Type of digital output	Transistor	
Number of digital outputs	32	
Current-sourcing	Yes	
Digital outputs, parameterizable	No	
Short-circuit protection	Yes	

- Deepense threshold two	1 A
Response threshold, typ.	1A
Limitation of inductive shutdown voltage to	L+ (-53 V) Yes
Controlling a digital input Switching capacity of the outputs	res
with resistive load, max.	0.5 A
 on lamp load, max. 	5.W
· ·	5 W
Load resistance range olower limit	48 Ω
	4ο Ω 12 kΩ
upper limit	12 KΩ
Output voltage	
for signal "1", min. Output current	L+ (-0.8 V)
	0.5 A
for signal "1" rated value for signal "4" permissible range, max	0.5 A
• for signal "1" permissible range, max.	
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load • "0" to "1", max.	100 μο
	100 µs
• "1" to "0", max.	500 µs
Parallel switching of two outputs	Von
for logic links for uproting	Yes
 for uprating for redundant control of a load 	No
for redundant control of a load	Yes
Switching frequency	100 비구
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	0.5 August additional description is the general
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	4.000 m
	1 000 m
• shielded, max.	000
• unshielded, max.	600 m
unshielded, max. Interrupts/diagnostics/status information	
unshielded, max. Interrupts/diagnostics/status information Diagnostics function	No
unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable	
unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms	No No
unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm	No No No
unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt	No No
• unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses	No No No
• unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage	No No No No
unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Diagnoses Monitoring the supply voltage Wire-break	No No No No No
unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Diagnoses Monitoring the supply voltage Wire-break Short-circuit	No No No No No No No
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unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Diagnoses Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED	No No No No No No No No
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 unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Diagnoses Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation channels between the channels between the channels and backplane bus 	No No No No No No No Yes; green LED Yes; green LED Yes; green LED Yes; green LED Yes; green LED Yes; green LED No No No
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 unshielded, max. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Maintenance interrupt Diagnoses Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics between the channels between the channels and backplane bus Isolation tested with Standards, approvals, certificates 	No No No No No No No No Yes; green LED No No No 707 V DC (type test) No Yes; From FS02

 Category according to ISO 13849-1 	Cat. 3
SIL acc. to IEC 62061	SIL 2
 remark on safety-oriented shutdown 	https://support.industry.siemens.com/cs/de/de/view/39198632
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-30 °C; from FS04
-	·
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; from FS04
 vertical installation, max. 	40 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
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
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