6ES7522-1BL10-0AA0

Data sheet



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 safety-oriented 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	

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	10112
Current per channel, max.	0.5 A; see additional description in the manual
	4 A; see additional description in the manual
Current per group, max.Current per module, max.	16 A; see additional description in the manual
	To A, see additional description in the mandal
Cable length	4.000
• shielded, max.	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	No
Alarms	
 Diagnostic alarm 	No
 Maintenance interrupt 	No
Diagnoses	
Monitoring the supply voltage	No
Wire-break	No
Short-circuit	No
Group error	No
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes; green LED
Channel status display	Yes; green LED
for channel diagnostics	No
	No
for module diagnostics	INU
Potential separation	
Potential separation channels	
	No
 between the channels 	
 between the channels, in groups of 	8
 between the channels, in groups of 	8
 between the channels, in groups of between the channels and backplane bus Isolation	8 Yes
between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with	8
between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Standards, approvals, certificates	8 Yes 707 V DC (type test)
between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	8 Yes 707 V DC (type test) No
between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions Suitable for safety-related tripping of standard modules	8 Yes 707 V DC (type test) No Yes; From FS02
between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	8 Yes 707 V DC (type test) No Yes; From FS02

 Category according to ISO 13849-1 SIL acc. to IEC 62061 remark on safety-oriented shutdown 	Cat. 3 SIL 2
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
last modified:	5/6/2022

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