SIEMENS

Data sheet

6AG1522-1BH00-7AB0

SIPLUS S7-1500 DO 16X24VDC/0.5A ST -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7522-1BH00-0AB0 . DIGITAL OUTPUT MODULE 16 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE

General information	
Product type designation	DQ 16x24VDC/0.5A ST
HW functional status	E01
Firmware version	V1.0.0
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal configurable/integrated as of	V12 / V12
version	
STEP 7 configurable/integrated as of version	V5.5 SP3 / -
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.	30 mA
Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.1 W
Power loss	
Power loss, typ.	2 W
Digital outputs	
Number of digital outputs	16; > +60 °C Number of simultaneously controllable outputs max.
Chart size it systestics	8x 0.5 A, max. total current per group 2 A
Short-circuit protection	Yes; Clocked electronically
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. 	8 A; see additional description in the manual
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
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Isochronous mode Isochronous operation (application synchronized up	Yes
to terminal)	
Execution and activation time (TCO), min.	70 µs
Bus cycle time (TDP), min.	250 µs
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Monitoring the supply voltage	Yes
Wire-break	No

Short-circuit	Yes
• Fuse blown	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
• for module diagnostics	Yes; Red LED
Potential separation	
Potential separation channels	
between the channels	No
between the channels, in groups of	8
 between the channels and backplane bus 	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient conditions Ambient temperature during operation	
	-25 °C; = Tmin
Ambient temperature during operation	-25 °C; = Tmin 70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A
Ambient temperature during operation • horizontal installation, min.	70 °C; = Tmax; > +60 °C Number of simultaneously controllable
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max.	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min.	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A -25 °C; = Tmin
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max.	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A -25 °C; = Tmin
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Extended ambient conditions • relative to ambient temperature-atmospheric	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A -25 °C; = Tmin 40 °C; = Tmax Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Extended ambient conditions • relative to ambient temperature-atmospheric pressure-installation altitude	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A -25 °C; = Tmin 40 °C; = Tmax Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Extended ambient conditions • relative to ambient temperature-atmospheric pressure-installation altitude Relative humidity — With condensation, tested in accordance	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A -25 °C; = Tmin 40 °C; = Tmax Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 m) 100 %; RH incl. condensation/frost (no commissioning under
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Extended ambient conditions • relative to ambient temperature-atmospheric pressure-installation altitude Relative humidity — With condensation, tested in accordance with IEC 60068-2-38, max.	70 °C; = Tmax; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A -25 °C; = Tmin 40 °C; = Tmax Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 m)

- against mechanically active substances /

conformity with EN 60721-3-3

must remain on the unused interfaces during operation!

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Yes; Class 3S4 incl. sand, dust. The supplied connector covers

Decentralized operation		
Fast Startup supported	Yes; 500 ms	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	230 g	
last modified:	10/14/2016	