SIEMENS

Data sheet

6AG1522-1BF00-7AB0



SIPLUS S7-1500 DQ 8x24VDC/2A based on 6ES7522-1BF00-0AB0 with conformal coating, -40...+70 $^{\circ}$ C, digital output module, 8 channels in groups of 8; 8 A per group; diagnostics; substitute value

Figure similar

General information	
Product type designation	DQ 8x24VDC/2A HF
Product function	
I&M data	Yes; I&M0 to I&M3
 Isochronous mode 	No
Fast startup	Yes; 500 ms
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	40 mA; 20 mA per group, no output is activated.
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	5.6 W
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	8; > +60 °C Number of simultaneously controllable outputs max. 8x 0.5 A, max. total current per group 2 A
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
 Response threshold, typ. 	3 A
Limitation of inductive shutdown voltage to	-17 V
Switching capacity of the outputs	
 with resistive load, max. 	2 A
 on lamp load, max. 	10 W
Load resistance range	
 lower limit 	12 Ω
• upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	2 A
for signal "1" permissible range, max.	2.4 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	

	V.
• for logic links	Yes
• for uprating	No
for redundant control of a load	Yes
Switching frequency	400 11
with resistive load, max. with industries load, reserve	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.	2 A; note derating data in the manual
Current per group, max.	8 A; note derating data in the manual
Current per module, max. Collaboration	16 A; note derating data in the manual
Cable length	4 000
shielded, max.unshielded, max.	1 000 m 600 m
,	800 III
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	Voc
Monitoring the supply voltage	Yes
Wire-break Chart airpuit	No Yea
Short-circuit Tuga blown	Yes
Fuse blown Diagnostics indication LED.	No
Diagnostics indication LED	Voc. groon LED
RUN LED ERROR LED	Yes; green LED Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes; green LED
Channel status display	Yes; green LED
for channel diagnostics	Yes; red LED
for module diagnostics	Yes; red LED
Potential separation	100,100 EED
Potential separation channels	
• between the channels	Von
between the channels in groups of	Yes
• between the channels, in groups of	4
between the channels, in groups ofbetween the channels and backplane bus	
 between the channels, in groups of between the channels and backplane bus Permissible potential difference	4 Yes
between the channels, in groups of between the channels and backplane bus Permissible potential difference between different circuits	4
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EN 60721-3-3	fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	240 g

last modified:

4/29/2021