SIEMENS

Data sheet

6AG1522-1BF00-7AB0



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

Fig	1100	sim	ilar
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General information	
Product type designation	DQ 8x24VDC/2A HF
based on	6ES7522-1BF00-0AB0
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Fast startup	Yes; 500 ms
Engineering with	103, 500 113
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
Supply voltage	300 chuỳ lĐ. 1031 4021 3
Rated value (DC)	24 V
	19.2 V
permissible range, lower limit (DC)	28.8 V
permissible range, upper limit (DC)	20.0 V
Input current	
Current consumption, max.	40 mA; 20 mA per group, no output is activated.
Power	
Power consumption 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	
 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.	2 A; note derating data in the manual
Current per group, max.	8 A; note derating data in the manual
 Current per module, max. 	16 A; note derating data in the manual
Cable length	
 shielded, max. 	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	No
Short-circuit	Yes
Fuse blown	No
Diagnostics indication LED	NU
RUN LED	Vos: groon 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	Yes; red LED
for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	
between the channels	Yes
 between the channels, in groups of 	4
between the channels and backplane bus	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ecological footprint	
environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	43.8 kg
— global warming potential, (during production) [CO2	9.5 kg
eq]	
— global warming potential, (during operation) [CO2 eq]	34.5 kg
 global warming potential, (after end of life cycle) [CO2 eq] 	-0.231 kg
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)
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
vertical installation, min.	-40 °C; = Tmin

• vertical installation, max.	40 °C; = Tmax			
Altitude during operation relating to sea level	, .			
 Installation altitude above sea level, max. 	5 000 m			
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tma - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)			
Relative humidity				
• With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)			
Resistance				
Coolants and lubricants				
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air			
Use in stationary industrial systems			<i></i>	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of 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 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A 	Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A			
mensions				
Nidth	35 mm			
leight	147 mm			
Depth	129 mm			
eights				
Veight, approx.	240 g			
assifications				
		Version	Classification	
	eClass	14	27-24-22-04	
	eClass	12	27-24-22-04	
	eClass	9.1	27-24-22-04	
	eClass	9	27-24-22-04	
	eClass	8	27-24-22-04	
	eClass	7.1	27-24-22-04	
	eClass	6	27-24-22-04	
	ETIM	9	EC001419	
	ETIM	8	EC001419	
	ETIM	7	EC001419	

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			UNSPSC	15	32-15-17-05
Approvals / Certificate General Product Ap		_		_	EMV
General Product Ap	prova				
<u>Miscellaneous</u>	<u>Manufacturer Declara-</u> <u>tion</u>	CE EG-Konf.	UK CA	Ű	KC
EMV	For use in hazardous lo	cations	Maritime application	Environment	
	K ATEX	IECEx		EPD	

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