SIEMENS

Data sheet

6AG1522-5FF00-7AB0



SIPLUS S7-1500 DQ 8x230V AC/2A based on 6ES7522-5FF00-0AB0 with conformal coating, -40...+70 °C, digital output module, 8 channels in groups of 1; 2 A per group; substitute value

Figure similar

General information		
Product type designation	DQ 8x230 V AC/2A ST (triac)	
based on	6ES7522-5FF00-0AB0	
Product function		
• I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Fast startup	Yes; 500 ms	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275	
output voltage / header		
Rated value (AC)	120/230 V AC, 50/60 Hz	
Power		
Power consumption from the backplane bus	0.9 W	
Power loss		
Power loss, typ.	10.8 W	
Digital outputs		
Type of digital output	Triac	
Number of digital outputs	8; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current 2 A	
Digital outputs, parameterizable	Yes	
Short-circuit protection	No	
Size of motor starters according to NEMA, max.	5	
Switching capacity of the outputs		
 with resistive load, max. 	2 A	
on lamp load, max.	50 W	
Output voltage		
• for signal "1", min.	L1 (-1.5 V) at maximum output current; L1 (-8.5 V) at minimum output current	
Output current		
for signal "1" rated value	2 A	
for signal "1" permissible range, min.	10 mA	
for signal "1" permissible range, max.	15 A; max. 1 AC cycle	
• for signal "0" residual current, max.	2 mA	
Output delay with resistive load		
• "0" to "1", max.	1 AC cycle	
• "1" to "0", max.	1 AC cycle	
Parallel switching of two outputs		
• for logic links	No	
• for uprating	No	
 for redundant control of a load 	Yes	

Switching frequency			
 with resistive load, max. 	10 Hz		
 with inductive load, max. 	0.5 Hz		
on lamp load, max.	1 Hz		
Total current of the outputs			
Current per channel, max.	2 A; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current per group 2 A		
Current per group, max.	2 A; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current per group 2 A		
Current per module, max.	10 A; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current per group 2 A		
Cable length			
• shielded, max.	1 000 m		
• unshielded, max.	600 m		
Interrupts/diagnostics/status information			
Diagnostics function	No		
Substitute values connectable	Yes		
Alarms			
Diagnostic alarm	No		
Diagnoses			
Monitoring the supply voltage	No		
Wire-break	No		
Short-circuit	No		
Fuse blown	No		
Diagnostics indication LED	INO		
	Very green I ED		
• RUN LED	Yes; green LED		
• ERROR LED	Yes; red LED		
Monitoring of the supply voltage (PWR-LED)	No		
Channel status display	Yes; green LED		
• for channel diagnostics	No		
for module diagnostics	Yes; red LED		
Potential separation			
Potential separation channels			
 between the channels 	Yes		
 between the channels, in groups of 	1		
 between the channels and backplane bus 	Yes		
Between the channels and load voltage L1	Yes		
Permissible potential difference			
between different circuits	250 V AC between the channels and the backplane bus; 500 V AC between the channels		
Isolation			
Isolation tested with	2 500 V DC		
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	34.5 kg		
eq] — global warming potential, (after end of life cycle)	-0.231 kg		
[CO2 eq] Ambient conditions			
Ambient temperature during operation			
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)		
	-40 °C; = Tmin (incl. condensation/πost) 70 °C; = Tmax; > +60 °C number of simultaneously controllable outputs max.		
 horizontal installation, max. 	8x 0.25 A, max. total current 2 A		
 vertical installation, min. 	-40 °C; = Tmin		
vertical installation, max.	40 °C; = Tmax		
Altitude during operation relating to sea level			
and the state of t			
 Installation altitude above sea level, max. 	2 000 m		

Ambient air temperature-barometric pressure-altitude elative humidity	Tmin Tmax at 1 140 hPa 7	'95 hPa (-1 000 m +2	000 m)		
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)				
esistance	conditions)				
Coolants and lubricants					
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air				
Use in stationary industrial systems					
 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	Von Close 2 (avelualiza trial l	othylana)			
 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!				
onformal 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				
nensions					
/idth	35 mm	35 mm			
eight	147 mm				
epth	129 mm				
ights					
/eight, approx.	290 g				
ssifications					
		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 eClass	7.1 6	27-24-22-04 27-24-22-04		
	eClass eClass ETIM	7.1 6 9	27-24-22-04 27-24-22-04 EC001419		
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Miscellaneous

Manufacturer Declaration







<u>KC</u>

EMV

Maritime application

Environment







last modified:

10/9/2024