SIEMENS

Data sheet

6AG1521-1FH00-7AA0



SIPLUS S7-1500 DI 16x230V AC BA based on 6ES7521-1FH00-0AA0 with conformal coating, -40...+70 $^{\circ}$ C, digital input module, 16 channels in groups of 4; input delay 20 ms; input type 1 (IEC 61131)

Figure similar

DI 16x230VAC BA
6ES7521-1FH00-0AA0
Yes; I&M0 to I&M3
No
Yes; 500 ms
see entry ID: 109746275
1 W
4.9 W
16; > +60 °C, number of simultaneously controllable inputs max. 8
Yes
230 V; 120/230 V AC (47 Hz to 63 Hz)
0V AC to 40V AC
79V AC to 264V AC
11 mA; At 230 V AC/50 Hz and 6.5 mA at 120 V AC/50 Hz
No
25 ms
25 ms
No
1 000 m
600 m
Yes
2 mA
No

a Hardware interrupt	No
Hardware interrupt	No
Diagnoses	A)
Monitoring the supply voltage	No
Wire-break	No
Short-circuit	No
• Fuse blown	No
Diagnostics indication LED	
• 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 	No
 between the channels, in groups of 	4
between the channels and backplane bus	Yes
Permissible potential difference	
between different circuits	250 V AC between the channels and the backplane bus; 500 V AC between the
LedeCon.	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]	18.9 kg
— global warming potential, (during production) [CO2	12.1 kg
eq] — global warming potential, (during operation) [CO2	7.66 kg
eq]	7.00 kg
— global warming potential, (after end of life cycle)[CO2 eq]	-1.02 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 inputs max. 8
 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.	2 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 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	
 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 	Yes; Class 6S3 incl. sand, dust; *

60721-3-6			
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 (exclusion concentrations up to the limits of LC3 (salt spray) and level LB3	of EN 60721-3-3 class 3C4	
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.	200 g		
Classifications			
		Version	Classification

	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
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval other Environment







Confirmation

Environmental Confirmations

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