SIEMENS

Data sheet

6AG1521-1BL00-7AB0



SIPLUS S7-1500 DI 32x24VDC HF based on 6ES7521-1BL00-0AB0 with conformal coating, -40...+70 °C, digital input module, 32 channels in groups of 16; input delay 0.05..20 ms input type 3 (IEC 61131); diagnostics; hardware interrupts

Figure similar

E & HE C H			
General information			
Product type designation	DI 32x24VDC HF		
HW functional status	E01		
Firmware version	V1.0.0		
based on	6ES7521-1BL00-0AB0		
Product function			
• I&M data	Yes; I&M0 to I&M3		
 Isochronous mode 	Yes		
Fast startup	Yes; 500 ms		
Engineering with			
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275		
Supply voltage			
Rated value (DC)	24 V		
permissible range, lower limit (DC)	19.2 V		
permissible range, upper limit (DC)	28.8 V		
Reverse polarity protection	Yes		
Input current			
Current consumption, max.	40 mA; 20 mA per group with 24 V DC supply		
Power			
Power consumption from the backplane bus	1.1 W		
Power loss			
Power loss, typ.	4.2 W		
Digital inputs			
Number of digital inputs	32; > +60 °C, number of simultaneously controllable inputs max. 16		
Source/sink input	P-reading		
Input characteristic curve in accordance with IEC 61131, type 3	Yes		
Input voltage			
Rated value (DC)	24 V		
• for signal "0"	-30 to +5 V		
• for signal "1"	+11 to +30V		
Input current			
• for signal "1", typ.	2.5 mA		
Input delay (for rated value of input voltage)			
for standard inputs			
— parameterizable	Yes; 0.05 / 0.1 / 0.4 / 1.6 / 3.2 / 12.8 / 20 ms		
— at "0" to "1", min.	0.05 ms		
— at "0" to "1", max.	20 ms		
— at "1" to "0", min.	0.05 ms		
— at "1" to "0", max.	20 ms		

for interment innerto	
for interrupt inputs	Von
— parameterizable Cable length	Yes
	1 000 m
shielded, max.unshielded, max.	600 m
• unshielded, max. Encoder	000 III
Connectable encoders	
2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Isochronous mode	1.5 IIIA
Filtering and processing time (TCI), min.	80 µs; At 50 µs filter time
Bus cycle time (TDP), min.	250 µs
Interrupts/diagnostics/status information	200 μ3
Diagnostics function	Yes
Alarms	165
Diagnostic alarm	Yes
Hardware interrupt	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; to I < 350 μA
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) 	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 	16
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the 	No
electronics	
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
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	40.01
— global warming potential, (total) [CO2 eq]	18.9 kg
— global warming potential, (during production) [CO2 eq]	12.1 kg
— global warming potential, (during operation) [CO2 eq]	7.66 kg
 global warming potential, (after end of life cycle) [CO2 eq] 	-1.02 kg
Ambient conditions	
Ambient conditions Ambient temperature during operation	
	-40 °C; = Tmin (incl. condensation/frost)
Ambient temperature during operation	-40 °C; = Tmin (incl. condensation/frost) 70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 16
Ambient temperature during operation • horizontal installation, min.	
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max.	70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 16
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min.	70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 16 -40 °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 inputs max. 16 -40 °C; = Tmin
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Altitude during operation relating to sea level	70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 16 -40 °C; = Tmin 40 °C; = Tmax

Nime condensation, leated in accordance with IEC 60088-2-38, max. **Resistant Commercially available coolants and Ubricants. - Resistant to commercially available coolants and Ubricants.** - To biologically active substances according to EN 60721-3-3. - In a machinically active substances according to EN 60721-3-3. - In machanically active substances according to EN 60721-3-3. - In observation of the machinically active substances according to EN 60721-3-3. - In observation of the machinically active substances according to EN 60721-3-4. - In observation of the machinically active substances according to EN 60721-3-6. - In observation of the machinically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machanically active substances according to EN 60721-3-6. - To machinically active substances according to EN 60721-3-7. - To machinically active substances according to EN 60721-3-7. - To machinically active substances according to EN 60721-3-7. - To machinically active substances according to EN 60721-3-7. - To machinically active substances according to EN 60721-3-7. - To machinically active substances according to EN 6072-1-3-7. - To machinically active substances accordi		at 658 hPa 540 hPa (+3 500 m +5 000 m)				
2-38, max. Conditions Coolinats and lubricants — Resistant to commercially available coolants and lubricants — It is biologically active substances according to EN 60721-33 — In ordermically active substances according to EN 60721-33 — In ordermically active substances according to EN 60721-33 — In ordermically active substances according to EN 60721-33 — In ordermically active substances according to EN 60721-34 — In ordermically active substances according to EN 60721-34 — In ordermically active substances according to EN 60721-34 — In ordermically active substances according to EN 60721-34 — In ordermically active substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties substances according to EN 60721-34 — The indeptional parties found according to EN 60721-35 class 3C4 permitselely, leve Calcas 3 (excluding trinforethylene) have one the unused interfaces during operator of the interfaces according to EN 60721-35 class 3C4 permitselely for EN 60721-35 class 3C4 permitsele	Relative humidity	(,			
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G0721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-7-3 (ass 50-3)						
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Use on shipsiat sea to biologically active substances according to EN 60721-3-6 to biologically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark Note regarding classification of environmental conditions acid. place accepted to the foliage of the foliage accepted to the foliage of the foliage of the foliage accepted to the foliage accepted to the foliage of the foliage of the foliage accepted to the foliage accepted to the foliage of the foliage accepted to the foli		Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *				
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Female and control systems acc. to EN 60068-2-52 (severity degree 3).* Wasge in industrial process technology — Against chemically active substances according to EN 600721-3-6 — to mechanically active substances acc. to EN 60068-2-52 (severity degree 3).* Wasge in industrial process technology — Against chemically active substances acc. to EN 60068-4. — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60069-4 and ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60069-4 and ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60069-4 and ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60069-4 and ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60069-4 and during operations up to the limits of EN 60721-3-3 class 3/C4 permissiblely, leve LC3 (satt spray) and level LB3 (oil) * The supplied plug covers must remain in place over the unused interfaces during operations up to the limits of EN 60721-3-3 class 3/C4 permissiblely, leve LC3 (satt spray) and level LB3 (oil) * Ves; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Class 3 for high reliability Yes; Class 4 for high reliability Yes; Class 5 for high reliability Yes; Class 6 for high reliability Yes; Class	Use on ships/at sea					
degree 3); *						
Usage in industrial process technology — Against chemically active substances acc. to EN 6054-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60664-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-146058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-330A Width 129 mm 250 g Sassifications Version Classifications Version Classifications Version Classifications Version Classification CClass 9 9 27-24-22-04 eClass 9 1 2 27-24-22-04 eClass 9 1 27-24-22-04 eClass 9 1 27-24-22-04 eClass 9 1 2 27-04-22-04 eClass 9 2 27-04-22-04 eClass 9 27-04-22-04 eClass 9 2 27-04-22-04 eClass 9 2 27-04-22-04 eCla		Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *				
- Against chemically active substances acc. to EN 606844 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 606544 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 606643 • Military testing according to MIL-1-46058C, Amendment 7 Yes; Class 2 for high reliability Compound for Printed Board Assemblies according to IPC-CC-830A Modified - Soft measurement 7 Yes Conformal coating according to MIL-1-46058C, Amendment 7 Yes; Conformal coating according to MIL-1-46058C, Amendment 7 Yes; Conformal coating, Class A Soft measurement 8 Yes; Conformal Coating, Class A Soft		Yes; Class 6S3 incl. sand, dust; *				
60664-4 —Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces of the plug covers must remain in place over the unused interfaces and suring operation! **The supplied plug covers must remain in place over the unused interfaces of the plug covers must remain in place over the unused interfaces on the plug covers must remain in place over the unused interfaces and suring operation! **The supplied plug covers must remain in place over the unused interfaces of the plug covers must remain in place over the unused interfaces and suring operation! **The supplied plug covers must remain in place over the unused interfaces on the plug covers must remain in place over the unused interfaces of the plug covers must remain in place over the unused interfaces on the plug covers must remain in place over the unused interfaces on the plug covers must remain in place over the unused interfaces on the plug covers must remain in place over the unused interfaces on the plug	Usage in industrial process technology					
and control systems acc. to ANSI/ISA-71.04 Remark		Yes; Class 3 (excluding trichlorethylene)				
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conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • 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 Width 35 mm Height 147 mm Depth 129 mm Protections **Resident Structure** **Resident St						
Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Protection against fouling acc. to EN 60664-3 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 Width	conditions acc. to EN 60721, EN 60654-4 and					
Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Protection against fouling acc. to EN 60664-3 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 Width						
	• .	Yes; Class 2 for high reliability				
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Modth 35 mm 147 mm Depth 129 mm sights Weight, approx. 260 g assifications Version Classification	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection				
Compound for Printed Board Assemblies according to IPC-CC-830A Midth 35 mm Height 147 mm Depth 129 mm Integrated Printed Section Sect	Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life				
Width 35 mm Height 147 mm Depth bights Weight, approx. Class 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 eClass 7.1 27-24-22-04 eClass 7.1 27-24-22-04 eClass 6 27-24-22-04 eClass 6 27-24-22-04 eClass 7.1 27-24-22-04 eClass 6 27-2	Compound for Printed Board Assemblies according to IPC-	Yes; Conformal coating, Class A				
Teight 147 mm 129 mm 120 mm 1	imensions					
Depth elights Weight, approx. 260 g assifications Version Classification	Width	35 mm				
Weight, approx. 260 g assifications Version Classification	Height	147 mm	147 mm			
Weight, approx. 260 g 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 eClass <t< td=""><td>Depth</td><td colspan="4">129 mm</td></t<>	Depth	129 mm				
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	pprovals / Certificates					
General Product Approval EMV	General Product Approval					

Miscellaneous





Manufacturer Declaration



<u>KC</u>

EMV

For use in hazardous locations

Maritime application

Environment











last modified:

10/9/2024