## Data sheet

SIPLUS S7-1200 SB1223 I/O -40...+60°C start up -25°C with conformal coating based on 6ES7223-3AD30-0XB0 . Digital input/output 2 DI/2DO, 5V DC 200kHz



Figure similar

SB 1223, DI 2x5 V DC/DQ 2x5 V DC 200 kHz		
50 mA		
4 mA; per channel		
0.5 W		
2		
1		
Yes		

— up to 40 °C, max.	2
Input voltage	-
Type of input voltage	DC
	5 V
• Rated value (DC)	
• for signal "0"	0 to 1 V
• for signal "1"	2 to 6 V
Input current	
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	3 mA
• for signal "1", min.	6 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
— at "0" to "1", max.	2 µs
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— parameterizable	Yes
Cable length	
• shielded, max.	50 m
Digital outputs	
Number of digital outputs	2
• in groups of	1
Short-circuit protection	No
Switching capacity of the outputs	
<ul><li>with resistive load, max.</li></ul>	0.1 A
Load resistance range	
• upper limit	5 Ω
Output voltage	
• Rated value (DC)	5 V
• for signal "0", max.	0.4 V
● for signal "1", min.	L+ (-0.5 V)
• for signal "1", max.	6 V
Output current	
• for signal "1" permissible range, max.	0.1 A
Cable length	
• shielded, max.	50 m
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	

• for status of the inputs	Yes
• for status of the outputs	Yes

Ambient conditions			
Ambient temperature during operation			
● min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C		
• max.	60 °C; = Tmax		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
Altitude during operation relating to sea level			
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m		
<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 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			
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation		
Resistance			
Coolants and lubricants			
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air		
Use in stationary industrial systems			
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request		
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$		
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *		
Use on ships/at sea			
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request		
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$		
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *		
Usage in industrial process technology			
<ul> <li>Against chemically active substances acc.</li> <li>to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)		
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	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 \* The supplied plug covers must remain in place over the unused interfaces during operation! environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Yes • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Yes; Discoloration of coating possible during service life • Military testing according to MIL-I-46058C, Amendment 7 Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Enclosure material (front) Yes Plastic Width 38 mm

62 mm

21 mm

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Height

Depth

Weights

40 g rox.

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