6AG1223-0BD30-4XB0

Data sheet



SIPLUS S7-1200 SB 1223 2DI/2DQ based on 6ES7223-0BD30-0XB0 with conformal coating, -20...+60 °C, start up 0 °C, digital input/output 2 DI 24 V DC/2 DQ 24 V DC

General information		
Product type designation	SB 1223, DI 2x24 V DC/DQ 2x24 V DC	
based on	6ES7223-0BD30-0XB0	
Engineering with		
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275	
Supply voltage		
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
Input current		
from backplane bus 5 V DC, typ.	50 mA	
output voltage / header		
supply voltage of the transmitters / header		
Supply current, max.	4 mA; per channel	
Power loss		
Power loss, typ.	1 W	
Digital inputs		
Number of digital inputs	2; Current-sinking	
• in groups of	1	
Input characteristic curve in accordance with IEC 61131, type 1	Yes	
Number of simultaneously controllable inputs		
all mounting positions		
— up to 40 °C, max.	2	
Input voltage		
 Rated value (DC) 	24 V	
• for signal "0"	0 to 5 V	
• for signal "1"	+15 to +30 V	
Input current		
for signal "0", max. (permissible quiescent current)	1 mA	
• for signal "1", typ.	7 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	
— at "1" to "0", max.	10 μs	
for interrupt inputs		
— parameterizable	Yes	
for technological functions		
— parameterizable	Yes	
Cable length		

Number of digital corputs * in groups of 1 * Short-Craul protection No * Short-Craul protection No * Short-Craul protection No * With resistive foad, max. 0.5 A * on In amp load, max. 5.5 W * Load resistance range * Upper limit	• shielded, max.	50 m
## A propose of 1 control protection Short clinical protection	·	00 111
# In groups of # 1 Short-drand potention No # Chart of value No # Fall of		2: MOSEET solid state (oursest sinking/oursest coursing)
Switching capacity of the outquis * with residue (pod., max. * on lump load, max. * on support limt * on on support limt * on signal *1*, min. * on sign		
with resistance range		
Os A Department Double Market Plant (max Services Plant		No
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• National Value (DC) 24 V 25 V 25 V 26 V 26 V 26 V 27	on lamp load, max.	5 W
Output vertisage • Rated value (DC) • for signal "1", min. • for si	Load resistance range	
Related value (DC) for signal "0", max. for signal "1", min. Output current for signal "1" permissible range, max. for signal "0" residual current, max. O5 A 10 µA Cable length for signal "0" residual current, max. Cable length for signal "0" residual current, max. For max. Alaims Ves Os m Interrupts/diagnostise/status information Alaims Ves For status of the inputs for status of the outputs Fell height, max. Ambient temperature during operation for min. for max. Ambient temperature during storage/transportation for min. for max. Annihem temperature during storage/transportation for max. Annihem temperature during storage/transportation for max. Annihem temperature during storage/transportation for max. Annihem temperature-barrometric pressure-allitude for c; = Trank Annihem temperature-barrometric pressure	upper limit	0.6 Ω
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• for signal "1" rated value • for signal "1" rated value • for signal "1" rated value • for signal "2" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • shelded, max. • shelded, max. • shelded, max. • shelded, max. • for signal "1" status information Alarms • Yes Diagnostics inction Diagnostics inction Pes • for status of the inputs • for status of the outputs • for status of the outputs • for status of the outputs • for status of the outputs • Free fall • Feal height, max. • Ambient conditions Free fall • for lamposture during operation • min. • anx. • 20 "C; = Timix (incl. condensation/frost) • min. • max. Anticent temperature during storage/transportation • min. • max. • Ambient air temperature-barrometric pressure-altitude • Installation altitude above sea level. • Installation altitude above sea level, max. • Ambient air temperature-barrometric pressure-altitude • Sellow humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants - Les installations; - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substances according to EN 60721-3-3 - Les orbeanically active substanc	Rated value (DC)	24 V
Output current • for signal "1" permissible range, max. • for signal "2" residual current, max. • for signal "1" permissible range, max. • for signal "1" permissible range, max. • shelded, max. 10 µA Alternative distribution information Yes	• for signal "0", max.	0.1 V; with 10 kOhm load
Interrupt Side protection of signal "1" rated value In signal "1" permissible range, max. In or signal "0" residual current, max. In or signal "0" residual current, max. Interrupt Side protection of the signal protec	• for signal "1", min.	20 V
for signal "1" permissible range, max.	Output current	
• for signal "0" residual current, max. • shielded, max. • shielded, max. Storm	for signal "1" rated value	0.5 A
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Ambient air temperature-barometric pressure-altitude	Altitude during operation relating to sea level	
Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically 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 mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — 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 chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; *	 Installation altitude above sea level, max. 	5 000 m
Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)	Ambient air temperature-barometric pressure-altitude	- 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K)
With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea - to biologically 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 mechanically active substances according to EN 607	Relative humidity	
Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically 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 chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene)	With condensation, tested in accordance with IEC 60068-	
- Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea - to biologically 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 mechanically active substances ac	Resistance	
Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene)	Coolants and lubricants	
- to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanic		Yes; Incl. diesel and oil droplets in the air
Class 3B3 on request	Use in stationary industrial systems	
degree 3); *	— to biologically active substances according to EN	
Use on ships/at sea — to biologically 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 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand, dust; *		
 to biologically 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 60721-3-6 to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand, dust; * 		
60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand, dust; *	Use on ships/at sea	
 to chemically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand, dust; * 		
60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene)		Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity
— Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene)		Yes; Class 6S3 incl. sand, dust; *
— Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene)	Usage in industrial process technology	
	Against chemically active substances acc. to EN	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
- 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

Yes; Class 2 for high reliability

Yes; Type 1 protection

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

Mechanics/material

Enclosure material (front)

Plastic

Yes

Width	38 r	nm
Height	62 r	mm
Denth	21 1	mm

Weights

Weight, approx.

40 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
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

EMV

<u>KC</u>

Miscellaneous



Manufacturer Declara-<u>tion</u>





EMV

For use in hazardous locations

Maritime application











last modified:

5/29/2024

