SIEMENS

Data sheet

6AG1232-4HA30-5XB0



SIPLUS S7-1200 SB 1232 1AQ based on 6ES7232-4HA30-0XB0 with conformal coating, -40...+60 °C, start up -25 °C, analog output 1 AQ, +/-10 V DC (12 bit resolution) or 0-20 mA (11 bit resolution)

Product type designation SB 1232, AQ 1x12 bit Input current If orm backplane bus 5 V DC, typ. output voltage / header supply voltage of the transmitters / header • Supply current, max. 25 mA Power loss, typ. 1.5 W Analog inputs 0 Number of analog inputs 0 Analog outputs 1 Number of analog inputs 0 Analog outputs 1 Number of analog outputs 1 Output ranges, voltage • • 10 V to +10 V Yes Output ranges, current • • 0 to 20 mA Yes Load impedance (in rated range of output) • • with voltage outputs, min. 1000 Ω • with voltage outputs, max. 600 Ω Cable length • • bielded, max. 10 m; shielded, twisted pair Analog value generation for the outputs 12 bit Errors/accuracles Temperature error (relative to output range), (+/-) Temperature error (relative to output range), (+/-) 25 °C ±0.5 %, up to 55 °C ±1.8 % Integration and conversion time/resolution per channel •	General information	
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Ambient temperature during operation	Free fall	
	 Fall height, max. 	0.3 m; five times, in product package
• min, $-40 ^{\circ}\text{C}$: = Tmin (incl. condensation/frost): start-up @ -25 $^{\circ}\text{C}$	Ambient temperature during operation	
	• min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C

e may	60 °C; = Tmax
max. Ambient temperature during storage/transportation	00 C, - 111ax
min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
Ambient air temperature-barometric pressure- altitude	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	
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 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
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 (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 	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
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Dimensions	
Width	38 mm
Height	62 mm
Depth	21 mm
Weights	
Weight, approx.	40 g
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