SIEMENS

Data sheet

6AG1134-6GF00-7AA1



SIPLUS ET 200SP AI 8XI 2-/4-WIRE BA -40...+70°C with Conformal Coating based on 6ES7134-6GF00-0AA1 . suitable for BU type A0, A1, Color code CC01, Module diagnostics, 16 bit

Figure similar

General information			
Product type designation	AI 8xI 2-/4-wire BA		
Firmware version			
FW update possible	Yes		
usable BaseUnits	BU type A0, A1		
Color code for module-specific color identification plate	CC01		
Product function			
• I&M data	Yes; I&M0 to I&M3		
 Isochronous mode 	No		
 Measuring range scalable 	No		
Operating mode			
Oversampling	No		
• MSI	No		
CiR - Configuration in RUN			
Reparameterization possible in RUN	Yes		
Calibration possible in RUN	No		
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.	25 mA; without sensor supply		
Encoder supply			
24 V encoder supply			
• 24 V	Yes		
 Short-circuit protection 	Yes		
 Output current, max. 	0.7 A; total current of all encoders/channels		
Power loss			
Power loss, typ.	0.7 W; Without encoder supply voltage		
Address area			
Address space per module			
 Address space per module, max. 	16 byte		
Analog inputs			
Number of analog inputs	8; Single-ended		
 For current measurement 	8		

permissible input current for current input (destruction limit), max.	50 mA		
Cycle time (all channels), min.	1 ms; per channel		
Input ranges (rated values), currents			
• 0 to 20 mA	Yes		
 Input resistance (0 to 20 mA) 	100 Ω; 15 bit		
 -20 mA to +20 mA 	Yes		
— Input resistance (-20 mA to +20 mA)	100 Ω ; 16 bit incl. sign		
• 4 mA to 20 mA	Yes		
— Input resistance (4 mA to 20 mA)	100 Ω; 15 bit		
Cable length			
• shielded, max.	200 m		
Analog value generation for the inputs			
Integration and conversion time/resolution per channel			
Resolution with overrange (bit including sign), max.	16 bit		
Integration time, parameterizable	Yes		
 Interference voltage suppression for interference frequency f1 in Hz 	16.67 / 50 / 60 / 4 800 (16.67 / 50 / 60)		
Conversion time (per channel)	180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms		
Smoothing of measured values			
 Number of smoothing levels 	4; None; 4/8/16 times		
 parameterizable 	Yes		
Encoder			
Connection of signal encoders			
 for voltage measurement 	No		
 for current measurement as 2-wire transducer 	Yes		
— Burden of 2-wire transmitter, max.	650 Ω		
 for current measurement as 4-wire transducer 	Yes		
Errors/accuracies			
	0.01 %		
Linearity error (relative to input range), (+/-)			
Temperature error (relative to input range), (+/-)	0.005 %/K		
Crosstalk between the inputs, min.	50 dB		
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.05 %		
Operational error limit in overall temperature range			
 Current, relative to input range, (+/-) 	0.5 %		
Basic error limit (operational limit at 25 °C)			
 Current, relative to input range, (+/-) 	0.3 %		
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =	interference frequency		
 Series mode interference (peak value of interference < rated value of input range), min. 	70 dB; With conversion time 67.5 / 22.5 / 18.75 ms: 40 dB		
Interrupts/diagnostics/status information			
Diagnostics function	Yes		
Alarms			
Diagnostic alarm	Yes		
Limit value alarm	No		
Diagnoses			
	Voc		
Monitoring the supply voltage	Yes		
Wire-break	Yes; at 4 to 20 mA		
Short-circuit	Yes; Sensor supply to M; module by module		
• Group error	Yes		
Overflow/underflow	Yes		
Diagnostics indication LED			
 Monitoring of the supply voltage (PWR-LED) 	Yes; green LED		
 Channel status display 	Yes; green LED		
 for channel diagnostics 	No		
 for module diagnostics 	Yes; green/red DIAG LED		
Potential separation			
Potential separation channels			

	No		
between the channels	No		
 between the channels and backplane bus between the channels and the power supply of the 	Yes No		
electronics			
Isolation			
Isolation tested with	707 V DC (type test)		
Ambient conditions			
Ambient temperature during operation			
 horizontal installation, min. 	-40 °C; = Tmin (incl. condensation/frost)		
horizontal installation, max.	70 °C; = Tmax		
Altitude during operation relating to sea level	- aaa		
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 in bedewed state), horizontal installation		
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	Very Close 2D2 mold function and denote the set of the literation		
— 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, *		
 Against mechanical environmental conditions acc. to EN 60721-3-3 	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)		
Use on ships/at sea			
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)		
— 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; *		
— Against mechanical environmental conditions acc. to EN 60721-3-6	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193- 6AA00-0AA0)		
Usage in industrial process technology	Vest Clear 2 (avaluating triable attributer a)		
 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		
Dimensions			
Width	15 mm		
Height	73 mm		
Depth	58 mm		

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Weight, approx.

last modified:

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