SIEMENS

Data sheet

6AG1134-6GF00-7AA1



SIPLUS ET 200SP AI 8xl 2-/4-wire BA based on 6ES7134-6GF00-0AA1 with conformal coating, -40...+70 °C, analog input module, suitable for BU type A0, A1, color code CC01, module diagnostics, 16 bit

Figure similar

General information	
Product type designation	Al 8xl 2-/4-wire BA
Firmware version	
FW update possible	Yes
based on	6ES7134-6GF00-0AA1
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
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
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),	50 mA
max. Cycle time (all channels), min.	1 ms; per channel
	i ilis, per channer
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) Cable length	100 Ω ; 15 bit
• shielded, max.	200 m
Analog value generation for the inputs	200 111
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
	Yes
 Integration time, parameterizable 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	
Linearity error (relative to input range), (+/-)	0.01 %
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	
Series mode interference (peak value of interference <	70 dB; With conversion time 67.5 / 22.5 / 18.75 ms: 40 dB
rated value of input range), min.	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Limit value alarm	No
Diagnoses	
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	
between the channels	No
between the channels and backplane bus	Yes
between the channels and the power supply of the	No
The state of the s	

electronics			
solation			
Isolation tested with	707 V DC (type test)		
Ambient conditions			
Ambient temperature during operation			
 horizontal installation, min. 	-40 °C; = Tmin (incl. condensat	ion/frost)	
horizontal installation, max.	70 °C; = Tmax		
Altitude during operation relating to sea level			
Installation altitude above sea level, max.	5 000 m	705 I D	
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	s in the air	
Use in stationary industrial systems	Vest Class ODO II f	and almost an area (''')	aveanti
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus a Class 3B3 on request	nd dry rot spores (with the	e exception of fauna);
— 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			
 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		
limensions			
Width	15 mm		
Height	73 mm		
Depth	58 mm		
Veights			
Weight, approx.	31 g		
		Version	Classification
	eClass	14	
			27-24-26-01
	eClass	12	27-24-26-01

eClass	9.1	27-24-26-01
eClass	9	27-24-26-01
eClass	8	27-24-26-01
eClass	7.1	27-24-26-01
eClass	6	27-24-26-01
ETIM	9	EC001596
ETIM	8	EC001596
ETIM	7	EC001596
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

EMV

Manufacturer Declaration

Miscellaneous









For use in hazardous locations

Marine / Shipping









last modified:

5/29/2024