SIEMENS

Data sheet

6AG1334-0KE00-7AB0

SIPLUS S7-300 SM 334 4AI 2AO -25...+70 °C with conformal coating based on 6ES7334-0KE00-0ab0 . Analog module isolated, 4 Al/2 AO, 12 bit, 0-10 V for Pt100 (climatic range -120-155 degrees) and 10 kOhm measuring range, 1x 20-pole



Figure similar

Supply voltage				
Load voltage L+				
Rated value (DC)	24 V			
 Reverse polarity protection 	Yes			
Input current				
from supply and load voltage L+ (without load), max.	80 mA			
from backplane bus 5 V DC, max.	60 mA			
Power loss				
Power loss, typ.	2 W			
Analog inputs				
Number of analog inputs	4			
 For voltage measurement 	2			
 For resistance measurement 	4			
permissible input voltage for voltage input	20 V; continuous; 75 V for max. 1 s (mark to space ratio 1:20)			
(destruction limit), max.				
Cycle time (all channels) max.	85 ms			

Input ranges	
Voltage	Yes
• Current	No
Thermocouple	No
Resistance thermometer	Yes
Resistance	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
 Input resistance (0 to 10 V) 	100 kΩ
Input ranges (rated values), resistance thermometer	
• Pt 100	Yes; only climatic range
Input ranges (rated values), resistors	
• 0 to 10000 ohms	Yes
Characteristic linearization	
parameterizable	Yes
— for resistance thermometer	Pt100 (climate)
Cable length	
 shielded, max. 	100 m
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	10 mA
Output ranges, voltage	N.
• 0 to 10 V	Yes
Load impedance (in rated range of output)	
 with voltage outputs, min. 	2.5 kΩ
• with voltage outputs, capacitive load, max.	1 μF
Cable length	
 shielded, max. 	100 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	12 bit
max.	
 Integration time (ms) 	16,67 / 20 ms
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	12 bit
max.	
Settling time	
 for resistive load 	0.8 ms
 for capacitive load 	0.8 ms

Encoder				
Connection of signal encoders				
 for resistance measurement with two-wire connection 	Yes			
 for resistance measurement with three-wire connection 	Yes			
 for resistance measurement with four-wire connection 	Yes			
Errors/accuracies				
Operational error limit in overall temperature range				
 Voltage, relative to input range, (+/-) 	0.8 %; 0 to 10V			
 Resistance, relative to input range, (+/-) 	3.7 %; 10 kOhm			
 Resistance thermometer, relative to input range, (+/-) 	1.1 %			
 Voltage, relative to output range, (+/-) 	1.1 %			
Basic error limit (operational limit at 25 °C)				
 Voltage, relative to input range, (+/-) 	0.5 %; 0 to 10V			
 Resistance, relative to input range, (+/-) 	2.8 %; 10 kOhm			
 Resistance thermometer, relative to input range, (+/-) 	0.8 %			
• Voltage, relative to output range, (+/-)	0.85 %			
Interrupts/diagnostics/status information Alarms	Νο			
Diagnostics function	No			
Potential separation				
Potential separation analog inputs				
 between the channels and backplane bus 	Yes			
Potential separation analog outputs				
 between the channels and backplane bus 	Yes			
Isolation				
Isolation tested with	500 V DC			
Standards, approvals, certificates				
CE mark	Yes			
UL approval	Yes; File E239877			
RCM (formerly C-TICK)	Yes			
KC approval	Yes			
EAC (formerly Gost-R)	Yes			
Ambient conditions				
Ambient conditions	-25 °C; = Tmin			
Ambient conditions Ambient temperature during operation	-25 °C; = Tmin 70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use			

Ambient temperature during storage/transportation					
• 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					
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; *				
Remark					
 — Note regarding classification of environmental conditions acc. to EN 60721 	* 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 availability				
 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				
Connection method					
required front connector	20-pin				
Dimensions					
Width	40 mm				
Height	125 mm				
Depth	117 mm				

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Weight, approx.

last modified:

200 g

12/14/2018