SIEMENS

Data sheet

6AG1334-0KE00-7AB0



SIPLUS S7-300 SM 334 4AI 2AQ based on 6ES7334-0KE00-0AB0 with conformal coating, -25...+70 $^{\circ}$ C, analog module isolated, 4 Al/2 AQ, 12 bit, 0-10 V for Pt100 (climatic range -120-155 degrees) and 10 kOhm measuring range, 1x 20-pole

Figure similar

Load voltage L+ • Rated value (DC) • Reverse polarity protection Input current from supply and load voltage L+ (without load), max. from backplane bus 5 V DC, max. Power loss Power loss Power loss, typ. Analog inputs Number of analog inputs • For voltage measurement permissible input voltage for voltage input (destruction limit), max. Constant measurement current for resistance-type transmitter, typ. Cycle time (all channels) max. Input ranges • Voltage • Current • Resistance thermometer • Resistance • Resistance • Resistance • O to +10 V — Input resistance (0 to 10 V) Yes 80 mA 80 mA 60 mA 80 mA 60 mA 80 mA 60 mA 80 mA 60 mA 9 W 44 40 μA 44 40 μA 41 μα 41 μα 42 μα 43 μα 43 μα 43 μα 44 μα 45 μα 45 μα 47 μα 48 μα 49 μα 49 μα 49 μα 49 μα 49 μα 49 μα 40	
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 Resistance Input ranges (rated values), voltages 0 to +10 V Yes 	
Input ranges (rated values), voltages ● 0 to +10 V Yes	
• 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	
• 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), max. 	12 bit
 Integration time, parameterizable 	Yes
Integration time (ms)	16,67 / 20 ms
 Interference voltage suppression for interference 	50 / 60 Hz
frequency f1 in Hz	
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit
Conversion time (per channel)	500 μs
Settling time	
 for resistive load 	0.8 ms
 for capacitive load 	0.8 ms
Encoder	
Connection of signal encoders	
for voltage measurement	Yes
for resistance measurement with two-wire	Yes
connection	
 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 %
)	1.1 /0
 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	No
Diagnostics function	No
Potential separation	
Potential separation analog inputs	
between the channels and backplane bus	Yes
Potential separation analog outputs	
between the channels	No
between the channels and backplane bus	Yes
between the channels and the power supply of the	Yes
electronics	
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 temperature during operation	
• min.	-25 °C; = Tmin
• max.	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; *
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!
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	200 g
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