SIEMENS

Data sheet

6ES7334-0CE01-0AA0

SIMATIC S7-300, Analog module SM 334, Non-isolated 4 Al/2 AO, 1x 20-pole, Removing and inserting possible with active backplane bus



Figuresimilar

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from supply and load voltage L+ (without load), max.	110 mA
from backplane bus 5 V DC, max.	55 mA
Power loss	
Power loss, typ.	3 W
Analog inputs	
Number of analog inputs	4
 For voltage measurement 	4
permissible input voltage for voltage input (destruction limit), max.	20 V
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	5 ms
Input ranges	
Voltage	Yes
Current	Yes
Thermocouple	No
 Resistance thermometer 	No
Resistance	No
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	100 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
— Input resistance (0 to 20 mA)	50 Ω
Cable length	
 shielded, max. 	200 m
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	11 mA
Current output, no-load voltage, max.	15 V
Output ranges, voltage	
• 0 to 10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
Load impedance (in rated range of output)	

 with voltage outputs, min. 	5 kΩ
 with voltage outputs, capacitive load, max. 	1 µF
 with current outputs, max. 	300 Ω
 with current outputs, inductive load, max. 	1 mH
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. 	8 bit
 Integration time, parameterizable 	No
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	8 bit
 Conversion time (per channel) 	500 µs
Settling time	
 for resistive load 	0.3 ms
 for capacitive load 	3 ms
 for inductive load 	0.3 ms
Encoder	
Connection of signal encoders	
for voltage measurement	Yes
 for current measurement as 2-wire transducer 	No
 for current measurement as 4-wire transducer 	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
Voltage, relative to input range, (+/-)	0.9 %
 Current, relative to input range, (+/-) 	0.8 %
 Voltage, relative to output range, (+/-) 	0.6 %
 Current, relative to output range, (+/-) 	1 %
Basic error limit (operational limit at 25 °C)	1 70
Voltage, relative to input range, (+/-)	0.7 %
 Current, relative to input range, (+/-) 	0.6 %
 Voltage, relative to output range, (+/-) 	0.5 %
 Current, relative to output range, (+/-) 	0.5 %
Interrunts/diagnostics/status information	
Interrupts/diagnostics/status information	Ne
Alarms	No
Alarms Diagnostics function	No No
Alarms Diagnostics function Potential separation	
Alarms Diagnostics function Potential separation Potential separation analog inputs	No
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus	
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs	No
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Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the	No No
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and backplane bus • between the channels and the power supply of the electronics	No No No No
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation	No No No Yes
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with	No No No No
Alarms Diagnostics function Potential separation Potential separation analog inputs between the channels and backplane bus Potential separation analog outputs between the channels between the channels and backplane bus between the channels and backplane bus between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header	No No No Yes
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with	No No No Yes
Alarms Diagnostics function Potential separation Potential separation analog inputs between the channels and backplane bus Potential separation analog outputs between the channels between the channels and backplane bus between the channels and backplane bus between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header	No No No Yes 500 V DC
Alarms Diagnostics function Potential separation Potential separation analog inputs between the channels and backplane bus Potential separation analog outputs between the channels between the channels and backplane bus between the channels and backplane bus between the channels and the power supply of the electronics Isolation Isolation Isolation tested with connection method / header required front connector	No No No Yes 500 V DC
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header required front connector Dimensions	No No No No Yes 500 V DC 20-pin
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header required front connector Dimensions Width	No No No No Yes 500 V DC 20-pin 40 mm
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header required front connector Dimensions Width Height Depth	No No No No Yes 500 V DC 20-pin 40 mm 125 mm
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header required front connector Dimensions Width Height Depth Weights	No No No Yes 500 V DC 20-pin 40 mm 125 mm 117 mm
Alarms Diagnostics function Potential separation Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • between the channels • between the channels and backplane bus • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with connection method / header required front connector Dimensions Width Height Depth	No No No No Yes 500 V DC 20-pin 40 mm 125 mm
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