## 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



Figure similar

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	
<ul> <li>For voltage measurement</li> </ul>	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		
<ul> <li>shielded, max.</li> </ul>	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
<ul> <li>with voltage outputs, rank.</li> <li>with voltage outputs, capacitive load, max.</li> </ul>	1 μF
with voltage outputs, capacitive load, max.     with current outputs, max.	300 Ω
<ul> <li>with current outputs, max.</li> <li>with current outputs, inductive load, max.</li> </ul>	1 mH
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	8 bit
<ul> <li>Integration time, parameterizable</li> </ul>	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
<ul> <li>for capacitive load</li> </ul>	3 ms
for inductive load	0.3 ms
Encoder	
Connection of signal encoders	
<ul> <li>for voltage measurement</li> </ul>	Yes
<ul> <li>for current measurement as 2-wire transducer</li> </ul>	No
<ul> <li>for current measurement as 4-wire transducer</li> </ul>	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
<ul> <li>Voltage, relative to input range, (+/-)</li> </ul>	0.9 %
<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.8 %
<ul> <li>Voltage, relative to output range, (+/-)</li> </ul>	0.6 %
<ul> <li>Current, relative to output range, (+/-)</li> </ul>	1 %
Basic error limit (operational limit at 25 °C)	
<ul> <li>Voltage, relative to input range, (+/-)</li> </ul>	0.7 %
<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.6 %
<ul> <li>Voltage, relative to output range, (+/-)</li> </ul>	0.5 %
• Current, relative to output range, (+/-)	0.5 %
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Potential separation	
Potential separation analog inputs	
between the channels and backplane bus	No
Potential separation analog outputs	
between the channels	No
between the channels and backplane bus	No
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes
Isolation	
Isolation tested with	500 V DC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	285 g
last modified:	1/17/2021 🖸
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