## **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	
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		
<ul> <li>Voltage</li> </ul>	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
<ul> <li>with voltage outputs, capacitive load, max.</li> </ul>	1 μF
<ul><li>with current outputs, max.</li></ul>	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	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	8 bit
Integration time, parameterizable	No
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	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
for current measurement as 4-wire transducer	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	
<ul> <li>between the channels and backplane bus</li> </ul>	No
Potential separation analog outputs	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels and backplane bus</li> </ul>	No
<ul> <li>between the channels and the power supply of the</li> </ul>	Yes
electronics	
Isolation	FORVERO
Isolation tested with	500 V DC
connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	285 g
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