## 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	
<ul> <li>Resistance thermometer</li> </ul>	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	
<ul> <li>— Input resistance (0 to 20 mA)</li> </ul>	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)		

	510	
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	
<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 %	
<ul> <li>Current, relative to output range, (+/-)</li> </ul>	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		
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	500 V DC	
	20 nin	
required front connector Dimensions	20-pin	
	40 mm	
Width	40 mm	
Height	125 mm	
Depth Weights	117 mm	
	295.0	
Weight, approx.	285 g	
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