## **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		
<ul><li>Voltage</li></ul>	Yes	
Current	Yes	
Thermocouple	No	
<ul> <li>Resistance thermometer</li> </ul>	No	
Resistance	No	
Input ranges (rated values), voltages		
• 0 to +10 V	Yes	
<ul><li>— Input resistance (0 to 10 V)</li></ul>	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)	100	
with voltage outputs, min.	5 kΩ	
with voltage outputs, rim.      with voltage outputs, capacitive load, max.	1 μF	
with voltage outputs, capacitive load, max.      with current outputs, max.	300 Ω	
with current outputs, max.      with current outputs, inductive load, max.	1 mH	
Cable length	1 11111	
• shielded, max.	200 m	
Analog value generation for the inputs	250 111	
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	110	
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	
<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 %	
Current, relative to output range, (+/-)	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	No	
between the channels	No	
between the channels and backplane bus	No Yaa	
<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	
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