## **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 simila

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
<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
— 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 vanage auvent	
Output ranges, current	Voc
0 to 20 mA  Load impodance (in rated range of output)	Yes
Load impedance (in rated range of output)	F I/O
with voltage outputs, min.	5 kΩ
with outrage outputs, capacitive load, max.      with ourrent outputs, max.	1 μF 300 Ω
with current outputs, max.      with current outputs, industive lead, max.	
with current outputs, inductive load, max.  Cable length	1 mH
•	200 m
shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	0.17
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	
<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
• for capacitive load	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 %
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	
<ul> <li>between the channels and backplane bus</li> </ul>	No
Potential separation analog outputs	
between the channels	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	
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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