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	
 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	
• 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
 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
Integration time, parameterizable	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
 for capacitive load 	3 ms
• for inductive load	0.3 ms
Encoder	
Connection of signal encoders	
for voltage measurement	Yes
 for current measurement as 2-wire transducer 	No
 for current measurement as 4-wire transducer 	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
Voltage, relative to input range, (+/-)	0.9 %
Current, relative to input range, (+/-)	0.8 %
Voltage, relative to output range, (+/-)	0.6 %
Current, relative to output range, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input range, (+/-)	0.7 %
• Current, relative to input range, (+/-)	0.6 %
Voltage, relative to output range, (+/-)	0.5 %
Current, relative to output range, (+/-)	0.5 %
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Potential separation	110
Potential separation analog inputs	
between the channels and backplane bus	No
Potential separation analog outputs	INV
between the channels	No
 between the channels and backplane bus 	No
 between the channels and backplane bus between the channels and the power supply of the 	Yes
electronics	100
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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