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)	165
with voltage outputs, min.	5 kΩ
with voltage outputs, film. 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	200 111
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	8 bit
 Integration time, parameterizable 	No
	NO
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	8 bit
Resolution with overrange (bit including sign), max.	
Conversion time (per channel) Settling time	500 μs
Settling time	0.2
for resistive load for expecitive load	0.3 ms
for capacitive load for industive load	3 ms
• for inductive load	0.3 ms
Encoder Connection of signal accordance	
Connection of signal encoders	Von
• for voltage measurement	Yes
for current measurement as 2-wire transducer	No V
for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Operational error limit in overall temperature range	0.00%
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, (+/-) Pagin array limit (appretional limit at 25 °C)	1 %
Basic error limit (operational limit at 25 °C)	0.7 %
Voltage, relative to input range, (+/-) Current relative to input range, (+/-)	0.6 %
 Current, relative to input range, (+/-) Voltage, relative to output range, (+/-) 	0.5 %
	0.5 %
Current, relative to output range, (+/-) Interrupts/diagnostics/status information	0.5 %
	Na
Alarms Diagnostics function	No No
Diagnostics function	No
Potential separation	
Potential separation analog inputs • between the channels and backplane bus	No
Potential separation analog outputs	INO
between the channels	No
between the channels and backplane bus	No
 between the channels and the power supply of the 	Yes
electronics	
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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