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)		

	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	
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		
Potential separation analog inputs		
 between the channels and backplane bus 	No	
Potential separation analog outputs		
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		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	285 g	
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