

SIMATIC S7-300, Analog module SM 334, Non-isolated 4 AI/2 AO, 1x 20-pole, Removing and inserting possible with active backplane bus

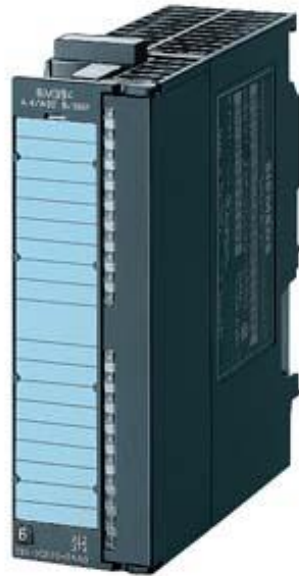


Figure similar

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 k $\Omega$
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
• Input resistance (0 to 20 mA)	50 $\Omega$
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 k $\Omega$
• with voltage outputs, capacitive load, max.	1 $\mu$ F
• with current outputs, max.	300 $\Omega$
• 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
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	8 bit
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 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

Diagnostic functions No

## Potential separation

### Potential separation analog inputs

- between the channels and backplane bus No

### Potential separation analog outputs

- between the channels and backplane bus No

## 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

**last modified:** 07/17/2018