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) |
| nput 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 | |

| • 0 to 20 mA | Yes |
|--|-------------|
| Load impedance (in rated range of output) | 100 |
| with voltage outputs, min. | 5 kΩ |
| with voltage outputs, rim. 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 | 250 111 |
| 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 | 110 |
| 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 | No |
| between the channels | No |
| between the channels and backplane bus | No Yaa |
| between the channels and the power supply of the electronics | Yes |
| 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 |
| | |
| last modified: | 1/17/2021 🗗 |