SIEMENS

## Data sheet 6ES7334-0CE01-0AA0



Figure similar

***spare part*** SIMATIC S7-300, analog module SM 334, non-isolated 4 AI/2 AO, 1x 20-pole, removing and inserting with active backplane bus possible

| | |
|---|---|
| **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 | |


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| | |
|---|---|
| ● 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** | |
| 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 electronics | Yes |
| **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 |
| **Classifications** | |


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| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-01 |
| eClass | 14 | 27-24-22-01 |
| eClass | 12 | 27-24-22-01 |
| eClass | 9.1 | 27-24-22-01 |
| eClass | 9 | 27-24-22-01 |
| eClass | 8 | 27-24-22-01 |
| eClass | 7.1 | 27-24-22-01 |
| eClass | 6 | 27-24-22-01 |
| ETIM | 10 | EC001420 |
| ETIM | 9 | EC001420 |
| ETIM | 8 | EC001420 |
| ETIM | 7 | EC001420 |
| IDEA | 4 | 3562 |
| UNSPSC | 15 | 32-15-17-05 |

## Approvals / Certificates

### General Product Approval




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