

SIEMENS

Product data sheet

6ES7334-0CE01-0AA0


SIMATIC S7, ANALOG INPUT/OUTPUT SM 334,
NON-ISOLATED, 4 AI/2 AO, 1 X 20 PIN,
REMOVE AND INSERT WITH BACKPLANE BUS

| Supply voltage | |
|---|--------|
| Load voltage L+ | |
| Rated value (DC) | 24 V |
| Input current | |
| from load voltage L+ (without load), max. | 110 mA |
| from backplane bus 5 V DC, max. | 55 mA |
| Power losses | |
| Power loss, typ. | 3 W |
| Analog inputs | |
| Number of analog inputs | 4 |
| Number of analog inputs for voltage measurement | 4 |
| permissible input voltage for voltage input (destruction limit), max. | 20 V |
| Cycle time (all channels) max. | 5 ms |
| permissible input current for current input (destruction limit), max. | 40 mA |

| Input ranges | |
|--|----------------|
| Voltage | Yes |
| Current | Yes |
| Resistance thermometer | No |
| Resistance | No |
| Input ranges (rated values), voltages | |
| 0 to +10 V | Yes |
| Input resistance (0 to 10 V) | 100 k Ω |
| Input ranges (rated values), currents | |
| 0 to 20 mA | Yes |
| Input resistance (0 to 20 mA) | 50 Ω |
| 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 Ω |
| with voltage outputs, capacitive load, max. | 1 μ F |
| with current outputs, max. | 300 Ω |
| with current outputs, inductive load, max. | 1 mH |
| Cable length | |
| Cable length, shielded, max. | 200 m |
| Analog value creation | |
| Integrations 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 4-wire transducer | Yes |
| Errors/accuracies | |
| Operational limit in overall temperature range | |
| Voltage, relative to input area | +/- 0,9 % |
| Current, relative to input area | +/- 0,8 % |
| Voltage, relative to output area | +/- 0,6 % |
| Current, relative to output area | +/- 1 % |
| Basic error limit (operational limit at 25 °C) | |
| Voltage, relative to input area | +/- 0,7 % |
| Current, relative to input area | +/- 0,6 % |
| Voltage, relative to output area | +/- 0,5 % |
| Current, relative to output area | +/- 0,5 % |
| Interrupts/diagnostics/status information | |
| Alarms | |
| Alarms | No |
| Diagnostic messages | |
| Diagnostic functions | No |
| Galvanic isolation | |
| Galvanic isolation analog inputs | |
| between the channels and the backplane bus | No |
| Galvanic isolation analog outputs | |
| between the channels and the backplane bus | No |
| Isolation | |
| Isolation checked with | 500 V DC |
| Connection method | |
| required front connector | 20-pin |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |

Weight

Weight, approx.

285 g

Status

Jul 17, 2012