



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 k Ω |
| 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) | |
| • 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 | |
| • 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 μ s |
| 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 | |

| | Version | Classification |
|--------|---------|----------------|
| 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



[China RoHS](#)

[Declaration of Conformity](#)



[Manufacturer Declaration](#)

General Product Approval

EMV

For use in hazardous locations

Maritime application

[Miscellaneous](#)



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