

SIMATIC S7-300, Analog output SM 332, isolated, 8 AO, U/I; diagnostics; resolution 11/12 bits, 40-pole, removing and inserting possible with active backplane bus



Figure similar

| Supply voltage | |
|---|--------|
| Load voltage L+ | |
| • Rated value (DC) | 24 V |
| • Reverse polarity protection | Yes |
| Input current | |
| from load voltage L+ (without load), max. | 340 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| Power loss | |
| Power loss, typ. | 6 W |
| Analog outputs | |
| Number of analog outputs | 8 |
| Voltage output, short-circuit protection | Yes |
| Voltage output, short-circuit current, max. | 25 mA |
| Current output, no-load voltage, max. | 18 V |
| Output ranges, voltage | |
| • 0 to 10 V | Yes |

| | |
|---|---|
| • 1 V to 5 V | Yes |
| • -10 V to +10 V | Yes |
| Output ranges, current | |
| • 0 to 20 mA | Yes |
| • -20 mA to +20 mA | Yes |
| • 4 mA to 20 mA | Yes |
| Load impedance (in rated range of output) | |
| • with voltage outputs, min. | 1 k Ω |
| • with voltage outputs, capacitive load, max. | 1 μ F |
| • with current outputs, max. | 500 Ω |
| • with current outputs, inductive load, max. | 10 mH |
| Cable length | |
| • shielded, max. | 200 m |
| Analog value generation for the outputs | |
| Integration and conversion time/resolution per channel | |
| • Resolution with overrange (bit including sign), max. | 12 bit; \pm 10 V, \pm 20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0 mA to 20 mA: 12 bit |
| • Conversion time (per channel) | 0.8 ms |
| Settling time | |
| • for resistive load | 0.2 ms |
| • for capacitive load | 3.3 ms |
| • for inductive load | 0.5 ms; 0.5 ms (1 mH); 3.3 ms (10 mH) |
| Errors/accuracies | |
| Operational error limit in overall temperature range | |
| • Voltage, relative to output range, (+/-) | 0.5 % |
| • Current, relative to output range, (+/-) | 0.6 % |
| Basic error limit (operational limit at 25 °C) | |
| • Voltage, relative to output range, (+/-) | 0.4 % |
| • Current, relative to output range, (+/-) | 0.5 % |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes; Parameterizable |
| Alarms | |
| • Diagnostic alarm | Yes; Parameterizable |
| Diagnoses | |
| • Diagnostic information readable | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| Potential separation | |
| Potential separation analog outputs | |
| • between the channels | No |

- between the channels and backplane bus
- Between the channels and load voltage L+
- between the channels and the power supply of the electronics

Yes
Yes
Yes

Isolation

Isolation tested with 500 V DC

Connection method

required front connector 40-pin

Dimensions

Width 40 mm

Height 125 mm

Depth 117 mm

Weights

Weight, approx. 272 g

last modified: 10/13/2020