



SIPLUS S7-300 SM332 40POLE -25...+70 DGR C WITH CONFORMAL COATING BASED ON 6ES7332-5HF00-0AB0

Figure similar

Supply voltage

Load voltage L+

- | | |
|--------------------|------|
| • Rated value (DC) | 24 V |
|--------------------|------|

Input current

- | | |
|---|--------|
| from load voltage L+ (without load), max. | 340 mA |
| from backplane bus 5 V DC, max. | 100 mA |

Power losses

- | | |
|------------------|-----|
| Power loss, typ. | 6 W |
|------------------|-----|

Analog outputs

- | | |
|---|---------------|
| Number of analog outputs | 8; 4 @ +70 °C |
| 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 kΩ |
| • with voltage outputs, capacitive load, max. | 1 μF |

• with current outputs, max.	500 Ω
• with current outputs, inductive load, max.	10 mH
Cable length	
• shielded, max.	200 m

Analog value creation

Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	12 bit; +/-10 V, +/-20 mA, 4 to 20 mA, 1 to 5 V: 11 bits + sign; 0 to 10 V, 0 to 20 mA: 12 bits
• 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 limit in overall temperature range	
• Voltage, relative to output area, (+/-)	0.5 %; +/-0.6% @ <0 °C or >60 °C
• Current, relative to output area, (+/-)	0.6 %; +/-0.7% @ <0 °C or >60 °C
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output area, (+/-)	0.4 %
• Current, relative to output area, (+/-)	0.5 %

Interrupts/diagnostics/status information

Substitute values connectable	Yes; Parameterizable
Alarms	
• Diagnostic alarm	Yes; Parameterizable
Diagnostic messages	
• Diagnostic information readable	Yes
• Diagnostics	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes

Galvanic isolation

Galvanic isolation analog outputs	
• between the channels and the backplane bus	Yes

Isolation

Isolation checked with	500 V DC
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Standards, approvals, certificates

CE mark	Yes
KC approval	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
FM approval	Yes; CofC 3028431

EAC (formerly Gost-R)	Yes
EN 50155	No
EN 50121-4	No

Ambient conditions

Ambient temperature in operation

- Min. -25 °C
- max. 70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use

Extended ambient conditions

- Relative to ambient temperature-atmospheric pressure-installation altitude
Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)

Relative humidity

- With condensation, tested in accordance with IEC 60068-2-38, max. 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)

Resistance

- against biologically active substances / conformity with EN 60721-3-3
Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3
Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3
Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Connection method

required front connector	40-pin
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Dimensions

Width	40 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx.	272 g
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last modified: 12.03.2015