

SIPLUS S7-300 SM 322 8DO 48-125V -25...+70 °C with conformal coating based on 6ES7322-1CF00-0AA0 . Digital output isolated, 8 DO, 48-125 V DC, 1.5A, 1x 20-pole



Figure similar

Supply voltage

Load voltage L+

- | | |
|---------------------------------------|---------------------------|
| • Rated value (DC) | 48 V; 48 V DC to 125 V DC |
| • permissible range, lower limit (DC) | 40 V |
| • permissible range, upper limit (DC) | 140 V |

Input current

- | | |
|---|--------|
| from load voltage L+ (without load), max. | 2 mA |
| from backplane bus 5 V DC, max. | 100 mA |

Power loss

- | | |
|------------------|-------|
| Power loss, typ. | 7.2 W |
|------------------|-------|

Digital outputs

- | | |
|---|----------|
| Number of digital outputs | 8 |
| Limitation of inductive shutdown voltage to | M (-1 V) |

Switching capacity of the outputs

- | | |
|----------------------|-----------------------------------|
| • on lamp load, max. | 15 W; 15 W (48 V) or 40 W (125 V) |
|----------------------|-----------------------------------|

Output voltage

| | |
|--|------------------|
| • for signal "1", min. | L+ (-1.2 V) |
| Output current | |
| • for signal "1" rated value | 1.5 A |
| • for signal "1" minimum load current | 10 mA |
| • for signal "1" permissible surge current, max. | 3 A; for 10 ms |
| • for signal "0" residual current, max. | 0.5 mA |
| Switching frequency | |
| • with resistive load, max. | 25 Hz |
| • with inductive load, max. | 0.5 Hz |
| • on lamp load, max. | 10 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 40 °C, max. | 6 A |
| — up to 60 °C, max. | 3 A |
| — up to 70 °C, max. | 1 A |
| vertical installation | |
| — up to 40 °C, max. | 4 A |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Interrupts/diagnostics/status information | |
| Diagnostics function | No |
| Alarms | |
| • Diagnostic alarm | No |
| Diagnostic messages | |
| • Wire-break | No |
| • Short-circuit | No |
| • Fuse blown | No |
| • missing load voltage | No |
| Diagnostics indication LED | |
| • Rated load voltage PWR (green) | No |
| • Fuse OK FSG (green) | No |
| • Group error SF (red) | Yes |
| • Status indicator digital output (green) | Yes |
| Potential separation | |
| Potential separation digital outputs | |
| • between the channels | Yes |
| • between the channels, in groups of | 4 |
| • between the channels and backplane bus | Yes; Optocoupler |
| Permissible potential difference | |

| | |
|---|--|
| between different circuits | 146 V DC/132 V AC |
| Isolation | |
| Isolation tested with | 1500 V AC |
| Standards, approvals, certificates | |
| CE mark | Yes |
| UL approval | Yes; File E239877 |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| Railway application | |
| • EN 50155 | Yes; T1 Category 1 Class A/B horizontal mounting position |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | -25 °C |
| • max. | 70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies |
| Ambient temperature during storage/transportation | |
| • min. | -40 °C |
| • max. | 70 °C |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 2 000 m |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 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 | |
| Use in stationary industrial systems | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| Remark | |

— Note regarding classification of environmental conditions acc. to EN 60721

* The supplied plug covers must remain in place over the unused interfaces during operation!

Conformal coating

- Coatings for printed circuit board assemblies acc. to EN 61086
- Military testing according to MIL-I-46058C, Amendment 7
- Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Class 2 for high availability

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

Connection method

required front connector

20-pin

Dimensions

Width

40 mm

Height

125 mm

Depth

120 mm

Weights

Weight, approx.

250 g

last modified:

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