




Figure similar

SIPLUS S7-1200 SM 1226 F-DQ 2x relay based on 6ES7226-6RA32-0XB0 with conformal coating, -25...+55 °C, F-DQ 2x RLY 5A, PROFIsafe, 70 mm width, up to PL e (ISO 13849-1)/ SIL3 (IEC 61508)

| General information | |
|--|--|
| Product type designation | SM 1226, F-DQ 2x relay/5 A |
| Supply voltage | |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Input current | |
| from backplane bus 5 V DC, max. | 120 mA |
| Digital outputs | |
| <ul style="list-style-type: none"> from load voltage L+, max. | 300 mA |
| Power loss | |
| Power loss, typ. | 10 W |
| Digital outputs | |
| Number of digital outputs | 2 |
| Short-circuit protection | No |
| Output voltage | |
| <ul style="list-style-type: none"> Rated value (DC) Rated value (AC) | 5 V DC to 30 V DC 5 V AC to 250 V AC |
| Output current | |
| <ul style="list-style-type: none"> for signal "1" rated value for signal "1" permissible range, max. | 5 A 5 A maximum per circuit and 10 A maximum of all circuits per module |
| Relay outputs | |
| <ul style="list-style-type: none"> Number of relay outputs | 2; 2 circuits per output |
| Switching capacity of contacts | |
| — with inductive load, max. | 0.1 Hz, accordance with IEC 60947-5-1, DC-13; 2 Hz, accordance with IEC 60947-5-1, AC-15 |
| — with resistive load, max. | 2 Hz |
| Cable length | |
| <ul style="list-style-type: none"> shielded, max. unshielded, max. | 200 m 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| <ul style="list-style-type: none"> for status of the outputs | Yes |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Standards, approvals, certificates | |
| Highest safety class achievable in safety mode | |
| <ul style="list-style-type: none"> Performance level according to ISO 13849-1 SIL acc. to IEC 61508 | Category 4, PL e SIL 3 |

| Ambient conditions | |
|---|---|
| Free fall | |
| <ul style="list-style-type: none"> Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> min. max. permissible temperature change | -25 °C; = Tmin 55 °C; = Tmax 5°C to 55°C, 3°C / minute |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> min. max. | -40 °C 70 °C |
| Altitude during operation relating to sea level | |
| <ul style="list-style-type: none"> Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude | 2 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) |
| Relative humidity | |
| <ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| Resistance | |
| Coolants and lubricants | |
| — Resistant to commercially available coolants and lubricants | Yes |
| 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; * |
| Usage in industrial process technology | |
| — Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Conformal coating | |
| <ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 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 reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A |
| Mechanics/material | |
| Enclosure material (front) <ul style="list-style-type: none"> Plastic | Yes |
| Dimensions | |
| Width | 70 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 300 g |
| last modified: | 1/16/2021  |

