Data sheet

SIPLUS S7-1200 SM 1222 16DQ RLY for medial exposure with conformal coating based on 6ES7222-1HH32-0XB0 . Digital output 16 DQ, relay 2 A



Figure similar

| General information | | |
|-------------------------------------|-------------------------------|--|
| | CM 1222 DO 16v rolov/2 A | |
| Product type designation | SM 1222, DQ 16x relay/2 A | |
| Supply voltage | | |
| permissible range, lower limit (DC) | 20.4 V | |
| permissible range, upper limit (DC) | 28.8 V | |
| Input current | | |
| Input current | | |
| from backplane bus 5 V DC, max. | 135 mA | |
| Digital outputs | | |
| • from load voltage L+, max. | 11 mA/relay coil | |
| Power loss | | |
| Power loss, typ. | 8.5 W | |
| Digital outputs | | |
| Number of digital outputs | 16 | |
| • in groups of | 1 | |
| Short-circuit protection | No; to be provided externally | |
| Switching capacity of the outputs | | |

| with resistive load, max. | 2 A |
|---|--|
| ● on lamp load, max. | 30 W with DC, 200 W with AC |
| Output voltage | |
| • Rated value (DC) | 5 V DC to 30 V DC |
| Rated value (AC) | 5 V AC to 250 V AC |
| Output current | |
| ● for signal "1" rated value | 2 A |
| Output delay with resistive load | |
| • "0" to "1", max. | 10 ms |
| • "1" to "0", max. | 10 ms |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 50 °C, max. | 10 A; Current per mass |
| Relay outputs | |
| Number of relay outputs | 16 |
| Rated supply voltage of relay coil L+ (DC) | 24 V |
| Number of operating cycles, max. | mechanically 10 million, at rated load voltage 100 000 |
| Switching capacity of contacts | |
| — with inductive load, max. | 2 A |
| — on lamp load, max. | 30 W with DC, 200 W with AC |
| — with resistive load, max. | 2 A |
| Cable length | |
| • shielded, max. | 500 m |
| • unshielded, max. | 150 m |
| Interrupto/diagnostics/status information | |
| Interrupts/diagnostics/status information Diagnostics function | Yes |
| Alarms | 1.00 |
| Diagnostic alarm | Yes |
| Diagnostic messages | |
| Monitoring the supply voltage | Yes |
| Diagnostics indication LED | |
| for status of the outputs | Yes |
| • for maintenance | Yes |
| | |
| Potential separation Potential separation digital outputs | |
| | Polay dry contact |
| between the channels | Relay, dry contact |
| between the channels, in groups of | 4 1500 V AC for 1 minute |
| between the channels and backplane bus | 1500 V AC for 1 minute |
| Permissible potential difference | |
| between different circuits | 750 V AC for 1 minute |
| | |

| Degree and class of protection | |
|---|---|
| IP degree of protection | IP20 |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C |
| • max. | 60 °C; = Tmax |
| At cold restart, min. | 0 °C |
| 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) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC |
| Relative humidity | |
| 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; Incl. diesel and oil droplets in the air |
| 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, | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas |
|---|--|
| measuring and control systems acc. to | concentrations up to the limits of EN 60721-3-3 class 3C4 |
| ANSI/ISA-71.04 | permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | |
| Note regarding classification of | * The supplied plug covers must remain in place over the unused |
| environmental conditions acc. to EN 60721, | interfaces during operation! |
| EN 60654-4 and ANSI/ISA-71.04 | |
| Conformal coating | |
| Coatings for printed circuit board assemblies | Yes; Class 2 for high availability |
| acc. to EN 61086 | |
| Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| Military testing according to MIL-I-46058C, | Yes; Discoloration of coating possible during service life |
| Amendment 7 | |
| Qualification and Performance of Electrical | Yes; Conformal coating, Class A |
| Insulating Compound for Printed Board | |
| Assemblies according to IPC-CC-830A | |
| Composition weatherd | |
| Connection method | Yes |
| required front connector | tes |
| Mechanics/material | |
| Enclosure material (front) | |
| Plastic | Yes |
| | |
| Dimensions | |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 260 g |
| | |

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last modified: