

Spare part SIPLUS S7-1200 SM 1222 8RLY for medial exposure with conformal coating based on 6ES7222-1HF30-0XB0 .
Digital output 8 DO, relay 2 A



| General information | |
|--|-------------------------------|
| Product type designation | SM 1222, DQ 8x relay/2 A |
| Supply voltage | |
| permissible range, lower limit (DC) | 5 V |
| permissible range, upper limit (DC) | 30 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. | 11 mA/relay coil |
| Power loss | |
| Power loss, typ. | 4.5 W |
| Digital outputs | |
| Number of digital outputs | 8 |
| <ul style="list-style-type: none"> in groups of | 2 |
| Short-circuit protection | No; to be provided externally |
| Switching capacity of the outputs | |
| <ul style="list-style-type: none"> with resistive load, max. | 2 A |

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| • 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" permissible range, max. | 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 | 8 |
| • 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 |
| Interrupts/diagnostics/status information | |
| Alarms | Yes |
| Diagnostic functions | Yes |
| Alarms | |
| • Diagnostic alarm | Yes |
| Diagnostics indication LED | |
| • for status of the outputs | Yes |
| • for maintenance | Yes |
| Potential separation | |
| Potential separation digital outputs | |
| • between the channels | Relays |
| • between the channels, in groups of | 2 |
| • 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 | |
| Degree of protection acc. to EN 60529 | |

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| • IP20 | Yes |
| Standards, approvals, certificates | |
| FM approval | Yes |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | 0 °C; = Tmin |
| • max. | 55 °C; = Tmax |
| • permissible temperature change | 5°C to 55°C, 3°C / minute |
| Ambient temperature during storage/transportation | |
| • min. | -40 °C |
| • max. | 70 °C |
| Altitude during operation relating to sea level | |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 080 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) |
| Relative humidity | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) |
| 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 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation! |
| — to mechanically active substances according to 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 | Yes |
| Mechanics/material | |
| Enclosure material (front) | |
| • Plastic | Yes |
| Dimensions | |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 190 g |

last modified:

05/18/2018