# SIEMENS

SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 16 DO, RELAY 2A



| 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. | 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 |

| | |
|---|---|
| **Interrupts/diagnostics/status information** | |
| Alarms | |
| ● Diagnostic alarm | Yes |
| Diagnostics indication LED | |
| ● for status of the outputs | Yes |

| | |
|---|---|
| **Potential separation** | |
| Potential separation digital outputs | |
| ● between the channels | Relays |
| ● between the channels, in groups of | 4 |
| ● 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 | |
| ● IP20 | Yes |

| | |
|---|---|
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |

| | |
|---|---|
| cULus | Yes |
| FM approval | Yes |
| RCM (formerly C-TICK) | Yes |
| Marine approval | Yes |

## Ambient conditions

### Free fall

| | |
|---|---|
| ● Fall height, max. | 0.3 m; five times, in product package |

### Ambient temperature during operation

| | |
|---|---|
| ● min. | -20 °C |
| ● max. | 60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical |
| ● horizontal installation, min. | -20 °C |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -20 °C |
| ● vertical installation, max. | 50 °C |
| ● permissible temperature change | 5°C to 55°C, 3°C / minute |

### Ambient temperature during storage/transportation

| | |
|---|---|
| ● min. | -40 °C |
| ● max. | 70 °C |

### Air pressure acc. to IEC 60068-2-13

| | |
|---|---|
| ● Storage/transport, min. | 660 hPa |
| ● Storage/transport, max. | 1 080 hPa |

### Relative humidity

| | |
|---|---|
| ● Operation at 25 °C without condensation, max. | 95 % |

## 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. | 260 g |

| | |
|---|---|
| **last modified:** | 11/28/2017 |

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