## Data sheet
**SM 222 (222-1BH00)**

### Technical data

| Order no. | 222-1BH00 |
|---|---|
| Type | SM 222 |
| **General information** | |
| Note | - |
| Features | 16x DO<br>DC 24 V<br>0.5 A<br>For conversion module UB4x<br>With LED status display |
| **Current consumption/power loss** | |
| Current consumption from backplane bus | 120 mA |
| Power loss | 3.5 W |
| **Technical data digital outputs** | |
| Number of outputs | 16 |
| Cable length, shielded | 1000 m |
| Cable length, unshielded | 600 m |
| Rated load voltage | DC 20.4...28.8 V |
| Current consumption from load voltage L+ (without load) | 10 mA |
| Total current per group, horizontal configuration, 40°C | 8 A |
| Total current per group, horizontal configuration, 60°C | 8 A |
| Total current per group, vertical configuration | 8 A |
| Output current at signal "1", rated value | 0.5 A |
| Signal logic output | Sourcing output |
| Output delay of "0" to "1" | 150 µs |
| Output delay of "1" to "0" | 100 µs |
| Minimum load current | - |
| Lamp load | 5 W |
| Parallel switching of outputs for redundant control of a load | not possible |
| Parallel switching of outputs for increased power | not possible |
| Actuation of digital input | yes |
| Switching frequency with resistive load | max. 1000 Hz |
| Switching frequency with inductive load | max. 0.5 Hz |
| Switching frequency on lamp load | max. 10 Hz |
| Internal limitation of inductive shut-off voltage | L+ (-52 V) |
| Short-circuit protection of output | yes, electronic |
| Trigger level | 1.5 A |
| Number of operating cycle of relay outputs | - |
| Switching capacity of contacts | - |
| Output data size | 2 Byte |
| **Status information, alarms, diagnostics** | |
| Status display | none |
| Interrupts | no |
| Process alarm | no |

| Diagnostic interrupt | no |
|---|---|
| Diagnostic functions | no |
| Diagnostics information read-out | none |
| Supply voltage display | none |
| Group error display | none |
| Channel error display | none |

## Isolation

| Between channels | - |
|---|---|
| Between channels of groups to | 16 |
| Between channels and backplane bus | yes |
| Insulation tested with | DC 500 V |

## Datasizes

| Input bytes | 0 |
|---|---|
| Output bytes | 2 |
| Parameter bytes | 0 |
| Diagnostic bytes | 0 |

## Housing

| Material | PPE / PA 6.6 |
|---|---|
| Mounting | Profile rail 35 mm |

## Mechanical data

| Dimensions (WxHxD) | 25.4 mm x 76 mm x 88 mm |
|---|---|
| Net weight | 80 g |
| Weight including accessories | - |
| Gross weight | - |

## Environmental conditions

| Operating temperature | 0 °C to 60 °C |
|---|---|
| Storage temperature | -25 °C to 70 °C |

## Certifications

| UL certification | yes |
|---|---|
| KC certification | - |