

## Data sheet

### SM 022 (022-1HB10)

#### Technical data

<b>Order no.</b>	<b>022-1HB10</b>
Type	SM 022
Module ID	0109 AF90

#### General information

Note	-
Features	2 relay outputs DC 30 V/ AC 230 V Output current 3 A

#### Current consumption/power loss

Current consumption from backplane bus	130 mA
Power loss	0.7 W

#### Technical data digital outputs

Number of outputs	2
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 30 V/ AC 230 V
Current consumption from load voltage L+ (without load)	-
Total current per group, horizontal configuration, 40°C	-
Total current per group, horizontal configuration, 60°C	-
Total current per group, vertical configuration	-
Output current at signal "1", rated value	3 A
Output delay of "0" to "1"	10 ms
Output delay of "1" to "0"	5 ms
Minimum load current	-
Lamp load	-
Parallel switching of outputs for redundant control of a load	-
Parallel switching of outputs for increased power	-
Actuation of digital input	-
Switching frequency with resistive load	max. 0.33 Hz
Switching frequency with inductive load	-
Switching frequency on lamp load	-
Internal limitation of inductive shut-off voltage	-
Short-circuit protection of output	-
Trigger level	-
Number of operating cycle of relay outputs	-
Switching capacity of contacts	3 A
Output data size	2 Bit

#### Status information, alarms, diagnostics

Status display	green LED per channel
Interrupts	no
Process alarm	no

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

### Isolation

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

### PWM data

PWM channels	-
PWM time basis	-
Period length	-
Minimum pulse width	-
Type of output	-

### Safety

Safety protocol	-
Safety requirements	-
Secure user address	-
Watchdog	-
Two channels	-
Test pulse length	-
Circuit monitoring	-

### Datasizes

Input bytes	0
Output bytes	1
Parameter bytes	0
Diagnostic bytes	0

### Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

### Mechanical data

Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Weight	60 g

### Environmental conditions

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

### Certifications

UL certification	yes
KC certification	yes