

Data sheet SM 222 (222-1BH51)

Technical data

Order no.	222-1BH51
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Type	SM 222
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General information

Note	-
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Features	16x DO DC 24 V 0.5 A NPN
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Current consumption/power loss

Current consumption from backplane bus	90 mA
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Power loss	2.5 W
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Technical data digital outputs

Number of outputs	16
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Cable length, shielded	1000 m
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Cable length, unshielded	600 m
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Rated load voltage	DC 20.4...28.8 V
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Permitted range	-
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Current consumption from power section supply (without load)	25 mA
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Total current per group, horizontal configuration, 40°C	8 A
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Total current per group, horizontal configuration, 60°C	8 A
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Total current per group, vertical configuration	8 A
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Output current at signal "1", rated value	0.5 A
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Signal logic output	Sinking output
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Output delay of "0" to "1"	30 µs
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Output delay of "1" to "0"	100 µs
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Minimum load current	-
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Lamp load	5 W
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Parallel switching of outputs for redundant control of a load	possible (only outputs group)
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Parallel switching of outputs for increased power	not possible
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Actuation of digital input	yes
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Switching frequency with resistive load	max. 1000 Hz
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Switching frequency with inductive load	max. 0.5 Hz
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Switching frequency on lamp load	max. 10 Hz
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Internal limitation of inductive shut-off voltage	+45 V
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Short-circuit protection of output	yes, electronic
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Trigger level	1.7 A
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Number of operating cycle of relay outputs	-
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Switching capacity of contacts	-
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Output data size	2 Byte
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Status information, alarms, diagnostics

Status display	green LED per channel
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Interrupts	no
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Process alarm	no
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Diagnostic interrupt	no
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Diagnostic functions	no
Diagnostics information read-out	none
Supply voltage display	green LED per group
Group error display	red SF LED
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	90 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	-