

Data sheet SM 022 - Digital output (022-1HB10)

Technical data

Type SM 022 - Digital output Module ID 0109 AF90 General information Note - Features 2x DO DC 39 V AC 230 V	Order no.	022-1HB10
Carrent consumption/power loss	Туре	SM 022 - Digital output
Note	Module ID	0109 AF90
Features 2x DO DC 30 V A2 30 V	General information	
DC 30 V 3 A C 230 V 4 C 230 V 5 C 230 V 6 C 230 V 7 C 230 V	Note	
Current consumption from backplane bus 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 Permitted range - Current consumption from power section supply (without load) - Total current per group, horizontal configuration, 40°C 3 A Total current per group, horizontal configuration 3 A Output current a signal "1", rated value 3 A Signal logic output Isolated or "0" to "1" 10 ms 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 not possible Parallel switching of outputs for redundant control of a load not possible Actuation of digital input - Switching frequency with inductive load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz Internal limitation of inductive shut-off voltage - Short-circuit protection of outputs - Switching capacity of contacts 3 A Output data size 2 Bit Status information, alarms, diagnostics	Features	DC 30 V AC 230 V 3 A Potential separated per channel
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 Permitted range Current consumption from power section supply (without load) Total current per group, horizontal configuration, 40°C 3 A Total current per group, horizontal configuration, 60°C 3 A Total current per group, vertical configuration 3 A Output current at signal "1", rated value 3 A Signal logic output Isolated 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 not possible Parallel switching of outputs for increased power not possible Parallel switching frequency with resistive load max. 0.33 Hz Switching frequency with resistive load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz Switching frequency of or late outputs - Trigger level - Number of operating cycle of relay outputs - Switching capacity of contacts 3 A Output data size 2 Bit	Current consumption/power loss	
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Minimum load current Lamp load - Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power not possible Actuation of digital input - Switching frequency with resistive load max. 0.33 Hz Switching frequency with inductive load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz 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	Output delay of "0" to "1"	10 ms
Lamp load - 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 - Switching frequency with resistive load max. 0.33 Hz Switching frequency with inductive load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz Switching frequency on lamp load max. 0.33 Hz 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	Output delay of "1" to "0"	5 ms
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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	Switching frequency with inductive load	max. 0.33 Hz
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	Switching frequency on lamp load	max. 0.33 Hz
Trigger level - Number of operating cycle of relay outputs - Switching capacity of contacts 3 A Output data size 2 Bit Status information, alarms, diagnostics	Internal limitation of inductive shut-off voltage	-
Number of operating cycle of relay outputs - Switching capacity of contacts 3 A Output data size 2 Bit Status information, alarms, diagnostics		-
Switching capacity of contacts 3 A Output data size 2 Bit Status information, alarms, diagnostics	Trigger level	-
Output data size 2 Bit Status information, alarms, diagnostics	Number of operating cycle of relay outputs	-
Status information, alarms, diagnostics	Switching capacity of contacts	3 A
	Output data size	2 Bit
	Status information, alarms, diagnostics	
Status display green LED per channel	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	AC 2200 V
PWM data	
PWM channels	-
PWM time basis	-
Period length	
Minimum pulse width	
Type of output	-
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
Net weight	62 g
Weight including accessories	62 g
Gross weight	76 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	yes
KC certification	yes
UKCA certification	yes
ChinaRoHS certification	yes