

Data sheet

SM 022 - Digital output (022-1BD50)

Technical data

Order no.	022-1BD50
Туре	SM 022 - Digital output
Module ID	0105 AFA0
General information	
Note	
Features	4x DO DC 24 V 0.5 A NPN
Current consumption/power loss	
Current consumption from backplane bus	75 mA
Power loss	0.5 W
Technical data digital outputs	
Number of outputs	4
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 20.428.8 V
Current consumption from load voltage L+ (without load)	5 mA
Total current per group, horizontal configuration, 40°C	2 A
Total current per group, horizontal configuration, 60°C	2 A
Total current per group, vertical configuration	2 A
Output current at signal "1", rated value	0.5 A
Signal logic output	Sinking output
Output delay of "0" to "1"	30 µs
Output delay of "1" to "0"	100 μs
Minimum load current	-
Lamp load	10 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	+45 V
Short-circuit protection of output	yes, electronic
Trigger level	1.7 A
Number of operating cycle of relay outputs	-
Switching capacity of contacts	-
Output data size	4 Bit
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no
Process alarm	no
Diagnostic interrupt	no



Diagnostics information read-out none Supply voltage display green LED Group error display none Isolation Isolation Between channels - Between channels of groups to - Insulation tested with DC 500 V PWM channels and backplane bus yes Insulation tested with DC 500 V PWM channels - PWM data - Period length - Minimum pulse width - Type of uptur - Safety - Safety - Safety protocol - Safety protocol - Safety protocol - Safety protiocol - Safety safety	Diagnostic functions	no
Group error display red LED Channel error display none Isolation Isolation Between channels - Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V PWM data **** PWM data **** PWM data - Period length - Minimum pulse width - - Portion of length - Safety protocol - Safety requirements - Safety requirements - Sacure user address - Recure user address - Watchdog - Two channels - Test pulse length - Circuit monitoring 0 Outatasizes 1 I		none
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