

## Data sheet

SM 022 (022-1BD00)

Technical data

Type SM 022   Module ID 0104 AFA0   General information -	
General information	
Note -	
Features 4x DO DC 24 V 0.5 A	
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) 10 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 Sourcing output	
Output delay of "0" to "1" 30 µs	
Output delay of "1" to "0" 175 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 L+ (-45 V)	
Short-circuit protection of output yes, electronic	
Trigger level 1 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	
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	-	
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	
Net weight	57 g	
Weight including accessories	57 g	
Gross weight	71 g	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
Certifications		
UL certification	yes	
KC certification	yes	