

Data sheet SM 222 (222-1BH50)

Technical data

General information Note - Features 16 Low-Side outputs Output current 0.5 A Current consumption/power loss Current consumption from backplane bus 120 mA Power loss 3.5 W Technical data digital outputs Number of outputs 16 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 8 A Total current per group, vertical configuration, 60°C 8 A Total current per group, vertical configuration 8 A Output delay of "0" to "1" 100 µs	Order no.	222-1BH50
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Output delay of "0" to "1" 100 µs	Output current at signal "1", rated value	0.5 A
	Output delay of "0" to "1"	100 μs
Output delay of "1" to "0" 150 μs	Output delay of "1" to "0"	150 µs
Minimum load current -	Minimum load current	-
Lamp load 5 W	Lamp load	5 W
Parallel switching of outputs for redundant control of a load not possible	Parallel switching of outputs for redundant control of a load	not possible
Parallel switching of outputs for increased power not possible	Parallel switching of outputs for increased power	not possible
Actuation of digital input yes	Actuation of digital input	yes
Switching frequency with resistive load max. 1000 Hz	Switching frequency with resistive load	max. 1000 Hz
Switching frequency with inductive load max. 0.5 Hz	Switching frequency with inductive load	max. 0.5 Hz
Switching frequency on lamp load max. 10 Hz	Switching frequency on lamp load	max. 10 Hz
Internal limitation of inductive shut-off voltage +45 V	Internal limitation of inductive shut-off voltage	+45 V
Short-circuit protection of output yes, electronic	Short-circuit protection of output	yes, electronic
Trigger level 1.5 A	Trigger level	1.5 A
Number of operating cycle of relay outputs -	Number of operating cycle of relay outputs	-
Switching capacity of contacts -	Switching capacity of contacts	-
Output data size 2 Byte	Output data size	2 Byte
Status information, alarms, diagnostics	Status information, alarms, diagnostics	
Status display none	Status display	none
Interrupts no	Interrupts	no
Process alarm no	Process alarm	no
Diagnostic interrupt no	Diagnostic interrupt	no
Diagnostic functions no	Diagnostic functions	no



Diagnostics information read-out	none	A YASKAWA COMPANY	
Supply voltage display	none		
Group error display	none		
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 r	25.4 mm x 76 mm x 88 mm	
Weight	80 g		
Environmental conditions			
Operating temperature	0 °C to 60 °C		
Storage temperature	-25 °C to 70 °C		
Certifications			
UL certification	yes		
KC certification	-		