

Data sheet

SM 222 (222-1FF00)

Technical data

Order no.	222-1FF00
Туре	SM 222
General information	
Note	-
Features	8x DO DC 400 V AC 230 V 0.5 A Solid-state relay
Current consumption/power loss	
Current consumption from backplane bus	150 mA
Power loss	1.5 W
Technical data digital outputs	
Number of outputs	8
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	AC 230 V
Current consumption from load voltage L+ (without load)	-
Total current per group, horizontal configuration, 40°C	4 A
Total current per group, horizontal configuration, 60°C	4 A
Total current per group, vertical configuration	4 A
Output current at signal "1", rated value	0.5 A
Signal logic output	Sourcing output
Output delay of "0" to "1"	10 ms
Output delay of "1" to "0"	3 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
Actuation of digital input	-
Switching frequency with resistive load	max. 0.5 Hz
Switching frequency with inductive load	-
Switching frequency on lamp load	-
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	-
Output data size	1 Byte
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no
Process alarm	no

YASKAWA VIPA CONTROLS

Diagnostic functions no Diagnostics information read-out none Supply voltage display none Group error display none Channel error display none Isolation - Between channels - Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes - Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm 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 100 g Weight including accessories - Gross weight - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Cartifications - UL certifications - UL certification yes	Diagnostic interrupt	no
Supply voltage display none Group error display none Channel error display none Isolation	Diagnostic functions	no
Group error display none Channel error display none Isolation - Between channels - Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Mechanical data Dimensions (WxHxD) Diverstrike - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature - UL certification yes	Diagnostics information read-out	none
Channel error display none Isolation - Between channels - Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) Divery through accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certification yes	Supply voltage display	none
Isolation Between channels - Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) Directan constructions - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications yes	Group error display	none
Between channels-Between channels of groups to-Between channels and backplane busyesInsulation tested withDC 500 VDatasizes0Output bytes0Output bytes1Parameter bytes0Diagnostic bytes0HousingProfile rail 35 mmMechanical dataPPE / PA 6.6MountingProfile rail 35 mmMechanical data0Dimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight100 gWeight including accessories-Environmental conditions0 °C to 60 °CStorage temperature-UL certificationyes	Channel error display	none
Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing Prefile rail 35 mm Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications yes	Isolation	
Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications yes	Between channels	-
Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing 0 Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data 0 Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Between channels of groups to	-
DatasizesInput bytes0Output bytes1Parameter bytes0Diagnostic bytes0HousingMaterialPPE / PA 6.6MountingProfile rail 35 mmMechanical dataDimensions (WxHxD)25.4 mm x 76 mm x 88 mmDimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight100 gWeight including accessories-Gross weight-Environmental conditionsOperating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsUL certificationUL certificationyes	Between channels and backplane bus	yes
Input bytes0Output bytes1Parameter bytes0Diagnostic bytes0HousingPPE / PA 6.6MaterialPPE / PA 6.6MountingProfile rail 35 mmMechanical dataDimensions (WxHxD)Dimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight100 gWeight including accessories-Gross weight-Environmental conditions0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsUL certificationUL certificationyes	Insulation tested with	DC 500 V
Output bytes 1 Parameter bytes 0 Diagnostic bytes 0 Housing 0 Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data 0 Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 60 °C UL certifications yes	Datasizes	
Parameter bytes 0 Diagnostic bytes 0 Housing 0 Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data 0 Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications uL certification UL certification yes	Input bytes	0
Diagnostic bytes 0 Housing Material Material PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data Mechanical data Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 70 °C Certifications UL certification UL certification yes	Output bytes	1
Housing PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications yes	Parameter bytes	0
MaterialPPE / PA 6.6MountingProfile rail 35 mmMechanical dataProfile rail 35 mmDimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight100 gWeight including accessories-Gross weight-Environmental conditions0 °C to 60 °COperating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsyes	Diagnostic bytes	0
MountingProfile rail 35 mmMechanical dataDimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight100 gWeight including accessories-Gross weight-Environmental conditions0 °C to 60 °COperating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsyes	Housing	
Mechanical data Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 100 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 UL certification yes	Material	PPE / PA 6.6
Dimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight100 gWeight including accessories-Gross weight-Environmental conditions-Operating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsUL certificationUL certificationyes	Mounting	Profile rail 35 mm
Net weight 100 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 UL certification yes	Mechanical data	
Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm
Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Net weight	100 g
Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Weight including accessories	-
Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification	Gross weight	-
Storage temperature -25 °C to 70 °C Certifications UL certification	Environmental conditions	
Certifications UL certification yes	Operating temperature	0 °C to 60 °C
UL certification yes	Storage temperature	-25 °C to 70 °C
	Certifications	
KC certification -	UL certification	yes
	KC certification	-