

Data sheet

SM 222, ECO (222-1BH30)

Technical data

TypeSM 222, ECOGeneral information-Note-Features16x DD DC 24 VCurrent consumption/power loss-Current consumption from backplane bus120 mAPower loss3.5 WTechnical data digital outputs16Cable length, unshielded600 mCable length, unshielded600 mCable length, unshielded600 mCate on consumption from load votage L+ (without load)10 mATotal current per group, horizontal configuration, 60°C8 ATotal current per group, horizontal configuration, 60°C8 ATotal current per group, vortical configuration, 60°C8 AColput diago of 1° to 1°1max. 100 µsOutput diago of 1° to 1°1max. 100 µsOutput diago of 1° to 1°1max. 350 µsMinimu load current-Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleArtuation of digital inputyesSwitching frequency with increased powernot possibleArtuation of digital inputyes, electronicSwitching frequency with increased power1 ANumber of porabilito of outputs1 ANumber of porabilito of outputs-Switching frequency with indication1 ANumber of porabilito of outputs-Switching frequency with indication1 ANumber of porabilito of outputs-Switching frequency with indication1 ANumber of porabilito of indications in	Order no.	222-1BH30
Note - Features 10x DD 2 C4 V 0.5 Å Current consumption from backplane bus 120 mA Power loss 3.5 W Technical data digital outputs 16 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage DC 20.428.8 V Current per group, horizontal configuration, 40°C 8 A Total current per group, horizontal configuration, 40°C 8 A Total current per group, horizontal configuration, 60°C 8 A Total current per group, horizontal configuration, 60°C 8 A Signal logic output Sourcing output Output delay of "1" to "0" max. 100 µs Output delay of "1" to "0" max. 350 µs Minimum load current - Lamp load SW Paratelie switching of outputs for redundant control of a load not possible Actuation of digital input yes Switching frequency with resistive load max. 100 µs Switching of outputs for increased power not possible Actuation of digital input yes <td< td=""><td>Туре</td><td>SM 222, ECO</td></td<>	Туре	SM 222, ECO
Features 16x DO DC 24 V Current consumption/power loss 120 mA Power loss 3.5 W Technical data digital outputs 16 Cable length, shielded 1000 m Cable length, shielded 600 m Rate load voltage DC 20.428.8 V Current consumption from load voltage L+ (without load) 10 mA Total current per group, horizontal configuration, 60°C 8 A Total current per group, vertical configuration, 60°C 8 A Total current per group, vertical configuration, 60°C 8 A Total current per group, vertical configuration, 60°C 8 A Output current at signal "1", rated value 0.5 A Output delay of "1" to 10" max. 100 µS Output delay of "1" to 10" max. 100 µS Output delay of "1" to 10" max. 100 µS 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 resistive load max. 100Hz Switching frequency with resistive load max. 10Hz Iterenal limitation of inductive shu-off to vitage L <	General information	
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Power loss 3.5 W Technical data digital 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 Output current at signal '1', rated value 0.5 A Signal logic output Sourcing output Output delay of '0' to '1' max. 100 µs Output delay of '1' to '0' max. 350 µs Minimum load current - Lamp load 5 W Parallel switching of outputs for redundant control of a load not possible Actuation of digital input yes Switching frequency with inductive load max. 100 Hz Switching frequency on lamp load max. 100 Hz Switching frequency on lamp load not possible Actuation of digital input yes Switching frequency on lamp load max. 100 Hz Switching requency on lamp load max. 100	Current consumption/power loss	
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Number of outputs16Cable length, shielded1000 mCable length, unshielded600 mRated load voltageDC 20.428.8 VCurrent consumption from load voltage L+ (without load)10 mATotal current per group, horizontal configuration, 40°C8 ATotal current per group, horizontal configuration8 AOutput current as signal '11', rated value0.5 ASignal logic outputSourcing outputOutput delay of '0' to '1'max. 100 µsOutput delay of '0' to '1'max. 350 µsMinimum load current-Lamp load5 WParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with inductive loadmax. 100 HzSwitching frequency on lamp loadmax. 100 HzSwitching requency on lamp loadmax. 100 HzSwitching requency of outputsyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus linformation, alarms, diagnosticsgreen LED per channel	Power loss	3.5 W
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Rated load voltageDC 20.428.8 VCurrent consumption from load voltage L+ (without load)10 mATotal current per group, horizontal configuration, 40°C8 ATotal current per group, horizontal configuration8 AOutput current at signal "1", rated value0.5 ASignal logic outputSourcing outputOutput delay of "0" to "1"max. 350 µsMinimum load current-Lamp loadSWParallel switching of outputs for redundant control of a loadnot possibleParallel switching for outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 100 HzSwitching frequency with rotize shut-off voltageL+ (-52 V)Shot-circuit protection of outputs-Switching contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsnot	Cable length, shielded	1000 m
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Total current per group, horizontal configuration, 60°C8 ATotal current per group, vertical configuration8 AOutput current at signal "1", rated value0.5 ASignal logic outputSourcing outputOutput delay of "0" to "1"max. 100 µsOutput delay of "1" to "0"max. 350 µsMinimum load current-Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 100 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency with inductive loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsno	Current consumption from load voltage L+ (without load)	10 mA
Total current per group, vertical configuration8 AOutput current at signal "1", rated value0.5 ASignal logic outputSourcing outputOutput delay of "0" to "1"max. 100 µsOutput delay of "0" to "1"max. 350 µsMinimum load current-Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 0.1 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsno	Total current per group, horizontal configuration, 40°C	8 A
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Signal logic outputSourcing outputOutput delay of "0" to "1"max. 100 µsOutput delay of "1" to "0"max. 350 µsMinimum load current-Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputs-Trigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsno	Total current per group, vertical configuration	8 A
Output delay of "0" to "1"max. 100 µsOutput delay of "0" to "1"max. 350 µsMinimum load current-Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency on lamp loadmax. 1000 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsgreen LED per channelInterruptsno	Output current at signal "1", rated value	0.5 A
Output delay of "1" to "0"max. 350 µsMinimum load current-Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency on lamp loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsno	Signal logic output	Sourcing output
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Lamp load5 WParallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsno	Output delay of "1" to "0"	max. 350 μs
Parallel switching of outputs for redundant control of a loadnot possibleParallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInternal limitno	Minimum load current	-
Parallel switching of outputs for increased powernot possibleActuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus displaygreen LED per channelInterruptsno	Lamp load	5 W
Actuation of digital inputyesSwitching frequency with resistive loadmax. 1000 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsgreen LED per channelInterny Interny Internation, Interny Interny Interny Interny Interny Internal Internal Interny Interny Internation, Internati	Parallel switching of outputs for redundant control of a load	not possible
Switching frequency with resistive loadmax. 1000 HzSwitching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsno	Parallel switching of outputs for increased power	not possible
Switching frequency with inductive loadmax. 0.5 HzSwitching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsno	Actuation of digital input	yes
Switching frequency on lamp loadmax. 10 HzInternal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsno	Switching frequency with resistive load	max. 1000 Hz
Internal limitation of inductive shut-off voltageL+ (-52 V)Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsgreen LED per channelInterruptsno	Switching frequency with inductive load	max. 0.5 Hz
Short-circuit protection of outputyes, electronicTrigger level1 ANumber of operating cycle of relay outputs-Switching capacity of contacts-Output data size2 ByteStatus information, alarms, diagnosticsgreen LED per channelInterruptsno	Switching frequency on lamp load	max. 10 Hz
Trigger level 1 A Number of operating cycle of relay outputs - Switching capacity of contacts - Output data size 2 Byte Status information, alarms, diagnostics green LED per channel Interrupts no	Internal limitation of inductive shut-off voltage	L+ (-52 V)
Number of operating cycle of relay outputs - Switching capacity of contacts - Output data size 2 Byte Status information, alarms, diagnostics green LED per channel Interrupts no	Short-circuit protection of output	yes, electronic
Switching capacity of contacts - Output data size 2 Byte Status information, alarms, diagnostics - Status display green LED per channel Interrupts no	Trigger level	1 A
Output data size 2 Byte Status information, alarms, diagnostics Status display green LED per channel Interrupts no	Number of operating cycle of relay outputs	-
Status information, alarms, diagnostics Status display green LED per channel Interrupts no	Switching capacity of contacts	-
Status display green LED per channel Interrupts no	Output data size	2 Byte
Interrupts no	Status information, alarms, diagnostics	
	Status display	green LED per channel
Process alarm no	Interrupts	no
	Process alarm	no

Diagnostic interrupt

no

YASKAWA

Diagnostics information read-out none Supply voltage display green LED per group Group error display red SF LED 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 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 90 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Diagnostic functions	no
Group error display red SF LED 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 0 Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Material PPE / PA 6.6 Mounting Profile rail 35 mm Methanical data Dimensions (WxHxD) Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 90 g Weight Including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Diagnostics information read-out	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 0 Input bytes 0 Output bytes 2 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 90 g Weight Including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Supply voltage display	green LED per group
Isolation Between channels - Between channels of groups to 16 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 2 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) Diff including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Group error display	red SF LED
Between channels - Between channels of groups to 16 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Pref / 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 90 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Channel error display	none
Between channels of groups to 16 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes 0 Input bytes 0 Output bytes 2 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) Diversities - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Isolation	
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DatasizesInput bytes0Output bytes2Parameter bytes0Diagnostic bytes0HousingMaterialPPE / PA 6.6MountingProfile rail 35 mmMechanical dataDimensions (WxHxD)Dimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight90 gWeight including accessories-Gross weight-Environmental conditionsO °C to 60 °CStorage temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertifications-	Between channels and backplane bus	yes
Input bytes 0 Output bytes 2 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 90 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	Insulation tested with	DC 500 V
Output bytes 2 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 90 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	Datasizes	
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Diagnostic bytes 0 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 90 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 70 °C Certifications -	Output bytes	2
Housing PPE / PA 6.6 Mounting Profile rail 35 mm Mechanical data	Parameter bytes	0
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 90 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications	Diagnostic bytes	0
MountingProfile rail 35 mmMechanical dataDimensions (WxHxD)25.4 mm x 76 mm x 88 mmNet weight90 gWeight including accessories-Gross weight-Environmental conditions0 °C to 60 °CStorage temperature0 °C to 70 °CCertifications-	Housing	
Mechanical data Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 90 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Material	PPE / PA 6.6
Dimensions (WxHxD) 25.4 mm x 76 mm x 88 mm Net weight 90 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Mounting	Profile rail 35 mm
Net weight 90 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	Mechanical data	
Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	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	Net weight	90 g
Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -25 °C to 70 °C	Weight including accessories	-
Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -25 °C to 70 °C	Gross weight	-
Storage temperature -25 °C to 70 °C Certifications	Environmental conditions	
Certifications	Operating temperature	0 °C to 60 °C
	Storage temperature	-25 °C to 70 °C
	Certifications	
OL certification yes	UL certification	yes
KC certification -	KC certification	-