

Data sheet

SM 222 (222-1FD10)

Technical data

| Type SM 222 General Information Note | Order no. | 222-1FD10 |
|---|---|-----------------------|
| Note - 4 isolated solid-state outputs Ac 230 V DC 400 V Output current 0.5 A | Туре | SM 222 |
| Note - 4 isolated solid-state outputs Ac 230 V DC 400 V Output current 0.5 A | | |
| Features 4 isolated solid-state outputs AC 230 V/DC 400 V Output current 0.5 A Current consumption/power loss Current consumption from backplane bus 100 mA Power loss 1.5 W Technical data digital outputs Number of outputs 4 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 - Total current per group, horizontal configuration, 60°C - Total current per group, horizontal configuration - Output delay of "0" to "1" - Output delay of "0" to "1" - Output delay of "0" to "0" - Hamiliamum 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 Switching frequency with resistive load max. 100 Hz Switching frequency with resistive load max. 100 Hz Switching frequency on lamp load - Internal limitation of inductive shut-off voltage Switching requency on lamp load - Trigger level - Number of operating cycle of relay outputs Switching capacity of contacts - Output data size 1 Byte Status information, alarms, diagnostics | | |
| Current consumption/power loss Current consumption/power loss Current consumption from backplane bus 100 mA Power loss 1.5 W Technical data digital outputs Number of outputs 4 Cable length, shielded 1000 m Cable length, shielded 600 m Rated load voltage AC 230 V Current consumption from load voltage L+ (without load) Total current per group, horizontal configuration, 40°C Total current per group, horizontal configuration, 60°C Total current signal *1*, rated value 0.5 A Output delay of *0* to *1* Output delay of *0* to *1* Actualion of digital input - Parallel switching of outputs for increased power Actuation of digital input - Switching frequency with resistive load Switching frequency on lamp load Internal limitation of inductive shut-off voltage Short-circuit protection of outputs Switching capacity of celay outputs - Switching capacity of centacts Output data size 1 Byte Frocess alarm no Process alarm AC 230 V Current consumption AC 230 V - Togar Level AC 230 V - Current consumption from load Interrupts no Process alarm no | | |
| Current consumption from backplane bus 10.0 mA Power loss 1.5 W Technical data digital outputs Number of outputs 4 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 - Total current per group, horizontal configuration, 60°C - Total current per group, vertical configuration - Output current at signal *1", rated value 0.5 A Output delay of *0° to *1" - Output delay of *0° to *0° to *0° to *1" - 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 inductive load - Switching frequency with inductive load - Switching frequency with inductive load - Switching frequency on lamp load - Internal limitation of inductive shut-off voltage - Short-circuit protection of outputs - Trigger level - Number of operating cycle of relay outputs - Switching capacity of contacts - Output data size 1 Byte Status information, alarms, diagnostics Status information, alarms, diagnostics | Features | AC 230 V/ DC 400 V |
| Power loss 1.5 W Technical data digital outputs Number of outputs 4 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 - Total current per group, horizontal configuration, 60°C - Total current per group, vertical configuration - Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" - Output delay of "0" to "1" - Output delay of "4" to "0" - 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. 100 Hz Switching frequency with inductive load - Switching frequency with inductive shut-off voltage - Short-circuit protection of output 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 | Current consumption/power loss | |
| Number of outputs 4 Cable length, shielded 600 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 - Total current per group, horizontal configuration - Cupput current at signal "1", rated value 0.5 A Output delay of "0" to "1" - Output delay of "1" to "0" - Minimum load current Lamp load - Parallel switching of outputs for redundant control of a load not possible Actuation of digital input - Switching frequency with inductive load - Switching frequency with inductive load - Switching frequency on lamp load - Internal limitation of inductive shut-off voltage - Short-circuit protection of outputs - Switching capacity of centacts - Switching capacity of contacts | Current consumption from backplane bus | 100 mA |
| Number of outputs 4 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 - Total current per group, horizontal configuration, 60°C - Total current per group, vertical configuration 60°C - Total current at signal "1", rated value 0.5 A Output current at signal "1" rated value 0.5 A Output delay of "0" to "1" - Output delay of "1" to "0" - 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. 100 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 | Power loss | 1.5 W |
| 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 - Total current per group, vertical configuration, 60°C - Total current at signal "1", rated value 0.5 A Cutput delay of "0" to "1" - Cutput delay of "0" to "0" - Minimum load current - Lamp load - Parallel switching of outputs for redundant control of a load not possible Actuation of digital input - Switching frequency with resistive load max. 100 Hz Switching frequency with inductive load - Switching frequency on lamp load - Internal limitation of inductive shut-off voltage - Short-circuit protection of outputs - Trigger level - Number of operating cycle of relay outputs Status display green LED per channel Interrupts no | Technical data digital outputs | |
| 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 - Total current per group, horizontal configuration, 60°C - Total current per group, vertical configuration - Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" - Output delay of "1" to "0" - 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. 100 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 | Number of outputs | 4 |
| Rated load voltage AC 230 V Current consumption from load voltage L+ (without load) - Total current per group, horizontal configuration, 40°C - Total current per group, horizontal configuration, 60°C - Total current per group, vertical configuration - Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" - Output delay of "0" to "1" - Output delay of "1" to "0" - 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. 100 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 | Cable length, shielded | 1000 m |
| Current consumption from load voltage L+ (without load) Total current per group, horizontal configuration, 40°C Total current per group, horizontal configuration, 60°C Total current per group, vertical configuration Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" Output delay of "0" to "1" Output delay of "1" to "0" Minimum load current Lamp load Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power not possible Actuation of digital input Switching frequency with resistive load max. 100 Hz Switching frequency with inductive load 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 | Cable length, unshielded | 600 m |
| Total current per group, horizontal configuration, 40°C Total current per group, horizontal configuration, 60°C Total current per group, vertical configuration Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" Output delay of "1" to "0" Minimum load current Lamp load - Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power Actuation of digital input Switching frequency with resistive load Switching frequency with resistive load 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 | Rated load voltage | AC 230 V |
| Total current per group, horizontal configuration, 60°C Total current per group, vertical configuration Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" Output delay of "1" to "0" Minimum load current Lamp load Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power Actuation of digital input Switching frequency with resistive load 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 | Current consumption from load voltage L+ (without load) | - |
| Total current per group, vertical configuration Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" Output delay of "1" to "0" Alinimum load current | Total current per group, horizontal configuration, 40°C | - |
| Output delay of "0" to "1" | Total current per group, horizontal configuration, 60°C | - |
| Output delay of "0" to "1" - Output delay of "1" to "0" - Minimum load current | Total current per group, vertical configuration | |
| Output delay of "1" to "0" Minimum load current Lamp load Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power not possible Actuation of digital input - Switching frequency with resistive load max. 100 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 | Output current at signal "1", rated value | 0.5 A |
| Minimum load current Lamp load Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power not possible Actuation of digital input Switching frequency with resistive load 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 | Output delay of "0" to "1" | |
| Lamp load Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power not possible Actuation of digital input Switching frequency with resistive load max. 100 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 | Output delay of "1" to "0" | |
| 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. 100 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 | Minimum load current | - |
| Parallel switching of outputs for increased power not possible Actuation of digital input - Switching frequency with resistive load max. 100 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 | Lamp load | - |
| Actuation of digital input Switching frequency with resistive load 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 | Parallel switching of outputs for redundant control of a load | not possible |
| Switching frequency with resistive load max. 100 Hz Switching frequency on lamp 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 | Parallel switching of outputs for increased power | not possible |
| 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 | Actuation of digital input | - |
| 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 | Switching frequency with resistive load | max. 100 Hz |
| 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 | Switching frequency with inductive load | - |
| 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 | Switching frequency on lamp load | - |
| 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 | Internal limitation of inductive shut-off voltage | - |
| 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 | Short-circuit protection of output | - |
| Switching capacity of contacts Output data size 1 Byte Status information, alarms, diagnostics Status display green LED per channel Interrupts no Process alarm no | Trigger level | - |
| Output data size 1 Byte Status information, alarms, diagnostics Status display green LED per channel Interrupts no Process alarm no | Number of operating cycle of relay outputs | - |
| Status information, alarms, diagnostics Status display green LED per channel Interrupts no Process alarm no | Switching capacity of contacts | - |
| Status display green LED per channel Interrupts no Process alarm no | Output data size | 1 Byte |
| Interrupts no Process alarm no | Status information, alarms, diagnostics | |
| Process alarm no | Status display | green LED per channel |
| | Interrupts | no |
| Diagnostic interrupt no | Process alarm | no |
| | Diagnostic interrupt | no |



| none none none none 1 |
|-------------------------|
| none none 1 |
| none 1 |
| 1 |
| 1 |
| 1 |
| |
| -0 |
| ✓ |
| DC 500 V |
| |
| 0 |
| 1 |
| 0 |
| 0 |
| |
| PPE / PA 6.6 |
| Profile rail 35 mm |
| |
| 25.4 mm x 76 mm x 88 mm |
| 100 g |
| |
| 0 °C to 60 °C |
| -25 °C to 70 °C |
| |
| yes |
| |