

Data sheet SM 022 (022-1BD20)

Technical data

| Order no. | 022-1BD20 |
|---|---------------------------------|
| Туре | SM 022 |
| Module ID | 0108 AFA0 |
| | |
| General information | |
| Note | - |
| Features | 4 outputs Output current 2 A |
| Current consumption/power loss | |
| Current consumption from backplane bus | 65 mA |
| Power loss | 0.8 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) | 20 mA |
| 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 | 2 A |
| Output delay of "0" to "1" | 100 µs |
| Output delay of "1" to "0" | 250 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 | ✓ |
| 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+ (-52 V) |
| Short-circuit protection of output | yes, electronic |
| Trigger level | 2.7 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 A YASKAWA COMPA |
|------------------------------------|----------------------------|
| Diagnostic functions | no |
| Diagnostics information read-out | none |
| Supply voltage display | green LED |
| Group error display | red SF LED |
| Channel error display | none |
| Isolation | |
| Between channels | - |
| Between channels of groups to | - |
| Between channels and backplane bus | ✓ |
| Insulation tested with | DC 500 V |
| PWM data | |
| PWM channels | - |
| PWM time basis | - |
| Period length | - |
| Minimum pulse width | - |
| PtP communication | - |
| Safety | |
| Safety protocol | |
| Safety requirements | |
| Secure user address | |
| Watchdog | |
| Two channels | |
| Test pulse length | |
| Circuit monitoring | |
| On our morning | |
| 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 |
| Weight | 60 g |
| Environmental conditions | |
| Operating temperature | 0 °C to 60 °C |
| Storage temperature | -25 °C to 70 °C |
| Certifications | |
| UL508 certification | yes |
| | |