

Data sheet
SM 323 (323-1BL00)
Technical data

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|---|---|
| Order no. | 323-1BL00 |
| Type | SM 323 |
| General information | |
| Note | - |
| Features | 16x DI 16x DO DC 24 V 1 A For 40 pole front connector |
| SPEED-Bus | - |
| Current consumption/power loss | |
| Current consumption from backplane bus | 65 mA |
| Power loss | 5.8 W |
| Technical data digital inputs | |
| Number of inputs | 16 |
| Cable length, shielded | 1000 m |
| Cable length, unshielded | 600 m |
| Rated load voltage | DC 24 V |
| Current consumption from load voltage L+ (without load) | 176 mA |
| Rated value | DC 20.4...28.8 V |
| Input voltage for signal "0" | DC 0...5 V |
| Input voltage for signal "1" | DC 15...28.8 V |
| Input voltage hysteresis | - |
| Frequency range | - |
| Input resistance | - |
| Input current for signal "1" | 7 mA |
| Connection of Two-Wire-BEROs possible | yes |
| Max. permissible BERO quiescent current | 1.5 mA |
| Input delay of "0" to "1" | 3 ms |
| Input delay of "1" to "0" | 3 ms |
| Number of simultaneously utilizable inputs horizontal configuration | 16 |
| Number of simultaneously utilizable inputs vertical configuration | 16 |
| Input characteristic curve | IEC 61131-2, type 1 |
| Initial data size | 2 Byte |
| Technical data digital outputs | |
| Number of outputs | 16 |
| Cable length, shielded | 1000 m |
| Cable length, unshielded | 600 m |
| Rated load voltage | DC 24 V |
| Reverse polarity protection of rated load voltage | yes |
| Current consumption from load voltage L+ (without load) | 30 mA |

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| Output current at signal "1", rated value | 1 A |
| Output delay of "0" to "1" | 150 µs |
| Output delay of "1" to "0" | 100 µs |
| Minimum load current | - |
| Lamp load | 5 W |
| Parallel switching of outputs for redundant control of a load | possible (only outputs group) |
| 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 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 | 1.5 A |
| Number of operating cycle of relay outputs | - |
| Switching capacity of contacts | - |
| Output data size | 2 Byte |

Status information, alarms, diagnostics

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|----------------------------------|-----------------------|
| Status display | green LED per channel |
| Interrupts | no |
| Process alarm | no |
| Diagnostic interrupt | no |
| Diagnostic functions | no |
| Diagnostics information read-out | none |
| Supply voltage display | green LED per group |
| Group error display | red SF LED |
| Channel error display | none |

Isolation

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| Between channels | yes |
| Between channels of groups to | 8 |
| Between channels and backplane bus | yes |
| Insulation tested with | DC 500 V |

Datasizes

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| Input bytes | 2 |
| Output bytes | 2 |
| Parameter bytes | 0 |
| Diagnostic bytes | 0 |

Housing

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| Material | PPE |
| Mounting | Rail System 300 |

Mechanical data

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| Dimensions (WxHxD) | 40 mm x 125 mm x 120 mm |
| Net weight | 230 g |
| Weight including accessories | 240 g |
| Gross weight | 270 g |

Environmental conditions

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|-----------------------|-----------------|
| Operating temperature | 0 °C to 60 °C |
| Storage temperature | -25 °C to 70 °C |
| Certifications | |
| UL certification | yes |
| KC certification | yes |