

Data sheet
IM 053PN (053-1PN01)
Technical data

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| Order no. | 053-1PN01 |
| Type | IM 053PN |
| Module ID | - |
| General information | |
| Note | - |
| Features | Integrated 2-port switch Up to 64 peripheral modules Transfer rate 100Mbit/s full-duplex Supports MRP slave as MRP client, FMM (Free Module Mapping), Easy Maintenance Supports shared device with up to 3 connections Supports IRT (Isochronous Real Time communication) Supports multiple and single write (acyclic communication) Integrated Web server Integrated DC 24V power supply for power and electronic section supply of the periphery modules Status LEDs |
| Technical data power supply | |
| Power supply (rated value) | DC 24 V |
| Power supply (permitted range) | DC 20.4...28.8 V |
| Reverse polarity protection | yes |
| Current consumption (no-load operation) | 95 mA |
| Current consumption (rated value) | 0.95 A |
| Inrush current | 3.9 A |
| I ² t | 0.14 A ² s |
| Max. current drain at backplane bus | 3 A |
| Max. current drain load supply | 10 A |
| Power loss | 3 W |
| Status information, alarms, diagnostics | |
| Status display | yes |
| Interrupts | yes, parameterizable |
| Process alarm | yes, parameterizable |
| Diagnostic interrupt | yes, parameterizable |
| Diagnostic functions | yes, parameterizable |
| Diagnostics information read-out | possible |
| Supply voltage display | green LED |
| Service Indicator | yellow LED |
| Group error display | red SF LED |
| Channel error display | none |
| Hardware configuration | |
| Racks, max. | 1 |
| Modules per rack, max. | 64 |
| Number of digital modules, max. | 64 |
| Number of analog modules, max. | 64 |
| Communication | |
| Fieldbus | PROFINET-IO |

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| Type of interface | Ethernet 100 MBit |
| Connector | 2 x RJ45 |
| Topology | - |
| Electrically isolated | yes |
| Number of participants, max. | - |
| Node addresses | - |
| Transmission speed, min. | 100 Mbit/s |
| Transmission speed, max. | 100 Mbit/s |
| Address range inputs, max. | 512 Byte |
| Address range outputs, max. | 512 Byte |
| Number of TxPDOs, max. | - |
| Number of RxPDOs, max. | - |
| Functionality MECHATROLINK-III slave | |
| Supported profile | - |
| Supported transfer cycle | - |
| Cyclic data size per node | - |
| Max. Number of nodes | - |
| Supported communication method | - |
| Supported command "Cyclic" | - |
| Supported command "Event driven" | - |
| Supported command "Message" | - |
| Datasizes | |
| Input bytes | - |
| Output bytes | - |
| Parameter bytes | - |
| Diagnostic bytes | - |
| Housing | |
| Material | PPE / PPE GF10 |
| Mounting | Profile rail 35 mm |
| Mechanical data | |
| Dimensions (WxHxD) | 48.5 mm x 109 mm x 76.5 mm |
| Net weight | 167.5 g |
| Weight including accessories | 167.5 g |
| Gross weight | 185 g |
| Environmental conditions | |
| Operating temperature | 0 °C to 60 °C |
| Storage temperature | -25 °C to 70 °C |
| Certifications | |
| UL certification | yes |
| KC certification | yes |