

Data sheet

IM 253DP, PROFIBUS-DP slave (253-1DP01)

Technical data

| | |
|--|---|
| Order no. | 253-1DP01 |
| Type | IM 253DP, PROFIBUS-DP slave |
| General information | |
| Note | - |
| Features | DC 24 V 12 Mbit/s Configuration via GSD-file of VIPA Up to 32 modules (16 analog) 244 Byte input and 244 Byte output data |
| 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) | 70 mA |
| Current consumption (rated value) | 1 A |
| Inrush current | 65 A |
| I^2t | 0.85 A ² s |
| Max. current drain at backplane bus | 3.5 A |
| Max. current drain load supply | - |
| Power loss | 2.5 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 | - |
| Group error display | yes |
| Channel error display | none |
| Hardware configuration | |
| Racks, max. | 1 |
| Modules per rack, max. | 32 |
| Number of digital modules, max. | 32 |
| Number of analog modules, max. | 16 |
| Communication | |
| Fieldbus | PROFIBUS-DP to EN 50170 |
| Type of interface | RS485 |
| Connector | Sub-D, 9-pin, female |
| Topology | Linear bus with bus termination at both ends |
| Electrically isolated | yes |
| Number of participants, max. | 125 |

| | |
|-----------------------------|------------|
| Node addresses | 1 - 99 |
| Transmission speed, min. | 9.6 kbit/s |
| Transmission speed, max. | 12 Mbit/s |
| Address range inputs, max. | 244 Byte |
| Address range outputs, max. | 244 Byte |
| Number of TxPDOs, max. | - |
| Number of RxPDOs, max. | - |

Housing

| | |
|----------|--------------------|
| Material | PPE / PA 6.6 |
| Mounting | Profile rail 35 mm |

Mechanical data

| | |
|------------------------------|-------------------------|
| Dimensions (WxHxD) | 25.4 mm x 76 mm x 78 mm |
| Net weight | 100 g |
| Weight including accessories | - |
| Gross weight | - |

Environmental conditions

| | |
|-----------------------|-----------------|
| Operating temperature | 0 °C to 60 °C |
| Storage temperature | -25 °C to 70 °C |

Certifications

| | |
|------------------|-----|
| UL certification | yes |
| KC certification | - |