

SIMATIC DP, INTERFACE IM 153-1, FOR ET 200M, FOR MAX. 8 S7-300 MODULES



Figure similar

| General information | |
|---|-----------------------|
| Vendor identification (VendorID) | 801Dh |
| Supply voltage | |
| Rated value (DC) | Yes |
| • 24 V DC | Yes |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| permissible range (ripple included), lower limit (DC) | 20.4 V |
| permissible range (ripple included), upper limit (DC) | 28.8 V |
| external protection for power supply lines (recommendation) | not necessary |
| Mains buffering | |
| • Mains/voltage failure stored energy time | 5 ms |
| Input current | |
| Current consumption, max. | 350 mA; at 24 V DC |
| Inrush current, typ. | 2.5 A |
| I^2t | 0.1 A ² ·s |
| Output voltage | |

| | |
|---|---------------------------------------|
| Rated value (DC) | 5 V |
| Output current | |
| for backplane bus (5 V DC), max. | 1 A |
| Power loss | |
| Power loss, typ. | 3 W |
| Address area | |
| Addressing volume | |
| • Inputs | 128 byte |
| • Outputs | 128 byte |
| Hardware configuration | |
| Number of modules per DP slave interface, max. | 8 |
| Interfaces | |
| Interface physics, RS 485 | Yes |
| Interface physics, FOC | No |
| PROFIBUS DP | |
| • Node addresses | 1 to 125 permitted |
| • automatic detection of transmission rate | Yes |
| • Output current, max. | 90 mA |
| • Transmission rate, max. | 12 Mbit/s |
| • Transmission procedure | RS 485 |
| • SYNC capability | Yes |
| • FREEZE capability | Yes |
| • Direct data exchange (slave-to-slave communication) | Yes; Sender |
| • Connector type | 9-pin sub D socket |
| 1. Interface | |
| DP slave | |
| • GSD file | (for DPV1) SIEM801D.GSD; SI01801D.GSG |
| • automatic baud rate search | Yes |
| Protocols | |
| Bus protocol/transmission protocol | PROFIBUS DP to EN 50170 |
| Isolation | |
| Isolation tested with | Isolation voltage 500 V |
| Degree and class of protection | |
| Degree of protection acc. to EN 60529 | |
| • IP20 | Yes |
| Ambient conditions | |
| Ambient temperature during operation | |

- min. 0 °C
- max. 60 °C

Air pressure acc. to IEC 60068-2-13

- Operating altitude above sea level, max. 3 000 m

Configuration

Configuration software

- STEP 7 STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file

Dimensions

| | |
|--------|--------|
| Width | 40 mm |
| Height | 125 mm |
| Depth | 117 mm |

Weights

Weight, approx. 360 g

last modified: 21.07.2015