



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

General information

|                                  |       |
|----------------------------------|-------|
| Vendor identification (VendorID) | 801Dh |
|----------------------------------|-------|

Supply voltage

|                                                             |               |
|-------------------------------------------------------------|---------------|
| 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 buffering time | 5 ms |
|----------------------------------------|------|

Input current

|                           |                    |
|---------------------------|--------------------|
| Current consumption, max. | 350 mA; at 24 V DC |
| Rated value at 24 V DC    | 625 mA             |

|                                                       |                                       |
|-------------------------------------------------------|---------------------------------------|
| Inrush current, typ.                                  | 2.5 A                                 |
| $I^2t$                                                | 0.1 A <sup>2</sup> ·s                 |
| Output voltage                                        |                                       |
| Rated value (DC)                                      | 5 V                                   |
| Rated value, 5 V DC                                   | Yes                                   |
| 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                                   |
| • PROFIBUS DP, 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                           |
| • PROFIBUS DP                                         | 9-pin sub D socket                    |
| 1. Interface                                          |                                       |
| DP slave                                              |                                       |
| • GSD file                                            | (for DPV1) SIEM801D.GSD; SI01801D.GSG |
| • automatic baud rate search                          | Yes                                   |
| Communication functions                               |                                       |
| Bus protocol/transmission protocol                    | PROFIBUS DP to EN 50170               |

|                                            |                                                        |
|--------------------------------------------|--------------------------------------------------------|
| Isolation                                  |                                                        |
| Isolation tested with                      | Isolation voltage 500 V                                |
| Degree and class of protection             |                                                        |
| IP20                                       | Yes                                                    |
| Ambient conditions                         |                                                        |
| Operating temperature                      |                                                        |
| • min.                                     | 0 °C                                                   |
| • max.                                     | 60 °C                                                  |
| Air pressure                               |                                                        |
| • 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                                                  |
| <b>last modified:</b>                      | 31.07.2014                                             |