



Figure similar

\*\*\* spare part \*\*\* SIMATIC DP, connection IM 153-1, for ET 200M, for max. 8 S7-300 modules

| General information                                         |                                       |
|-------------------------------------------------------------|---------------------------------------|
| Product type designation                                    | IM 153-1 DP ST                        |
| Vendor identification (VendorID)                            | 801Dh                                 |
| Supply voltage                                              |                                       |
| Rated value (DC)                                            | 24 V                                  |
| permissible range, lower limit (DC)                         | 20.4 V                                |
| permissible range, 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                                 |
| I²t                                                         | 0.1 A²·s                              |
| output voltage / header                                     |                                       |
| 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 device interface, max.             | 8                                     |
| Interfaces                                                  |                                       |
| Transmission procedure                                      | RS 485                                |
| Transmission rate, max.                                     | 12 Mbit/s                             |
| 1. Interface                                                |                                       |
| automatic detection of transmission rate                    | Yes                                   |
| Interface types                                             |                                       |
| • Output current of the interface, max.                     | 90 mA                                 |
| • Design of the connection                                  | 9-pin sub D socket                    |
| 1st interface / PROFIBUS DP device / header                 |                                       |
| • GSD file                                                  | (for DPV1) SIEM801D.GSD; SI01801D.GSG |
| • automatic baud rate search                                | Yes                                   |
| Protocols                                                   |                                       |
| Bus protocol/transmission protocol                          | PROFIBUS DP to EN 50170               |

|                                                       |                                                        |
|-------------------------------------------------------|--------------------------------------------------------|
| Protocols (Ethernet)                                  |                                                        |
| • TCP/IP                                              | No                                                     |
| PROFIBUS DP                                           |                                                        |
| • Number of node addresses, max.                      | 1 to 125 permitted                                     |
| Services                                              |                                                        |
| — SYNC capability                                     | Yes                                                    |
| — FREEZE capability                                   | Yes                                                    |
| — Direct data exchange (slave-to-slave communication) | Yes; Sender                                            |
| Potential separation                                  |                                                        |
| Potential separation exists                           | Yes                                                    |
| Isolation                                             |                                                        |
| Isolation tested with                                 | Isolation voltage 500 V                                |
| Degree and class of protection                        |                                                        |
| IP degree of protection                               | IP20                                                   |
| Ambient conditions                                    |                                                        |
| Ambient temperature during operation                  |                                                        |
| • min.                                                | 0 °C                                                   |
| • max.                                                | 60 °C                                                  |
| • horizontal installation, min.                       | 0 °C                                                   |
| • horizontal installation, max.                       | 60 °C                                                  |
| • vertical installation, min.                         | 0 °C                                                   |
| • vertical installation, max.                         | 40 °C                                                  |
| Altitude during operation relating to sea level       |                                                        |
| • Installation altitude above sea level, max.         | 3 000 m                                                |
| configuration / header                                |                                                        |
| 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                                                  |
| Classifications                                       |                                                        |

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-26-08    |
| eClass | 12      | 27-24-26-08    |
| eClass | 9.1     | 27-24-26-08    |
| eClass | 9       | 27-24-26-08    |
| eClass | 8       | 27-24-26-08    |
| eClass | 7.1     | 27-24-26-08    |
| eClass | 6       | 27-24-26-08    |
| ETIM   | 9       | EC001604       |
| ETIM   | 8       | EC001604       |
| ETIM   | 7       | EC001604       |
| IDEA   | 4       | 3564           |
| UNSPSC | 15      | 32-15-17-05    |

|                          |  |
|--------------------------|--|
| Approvals / Certificates |  |
| General Product Approval |  |

[Manufacturer Declaration](#)



[KC](#)



|     |                                |
|-----|--------------------------------|
| EMV | For use in hazardous locations |
|-----|--------------------------------|



[FM](#)



For use in hazardous locations



[Miscellaneous](#)

[CCC-Ex](#)



Marine / Shipping



[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

last modified:

12/8/2024