

SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR  
MAX. 8 S7-300 MODULES, WITH REDUNDANCY, TIME  
STAMPING FIT FOR ISOCHRON MODE

| General information                                            |                         |
|----------------------------------------------------------------|-------------------------|
| Vendor identification (VendorID)                               | 801Eh                   |
| Supply voltage                                                 |                         |
| Rated value (DC)                                               |                         |
| • 24 V DC                                                      | Yes                     |
| 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<br>(recommendation) | 2,5 A                   |
| Mains buffering                                                |                         |
| • Mains/voltage failure stored energy time                     | 5 ms                    |
| Input current                                                  |                         |
| Current consumption, max.                                      | 470 mA                  |
| Inrush current, typ.                                           | 3.5 A                   |
| $I^2t$                                                         | 0.08 A <sup>2</sup> ·s  |
| Power loss                                                     |                         |
| Power loss, typ.                                               | 4 W                     |
| Address area                                                   |                         |
| Addressing volume                                              |                         |
| • Inputs                                                       | 128 byte                |
| • Outputs                                                      | 128 byte                |
| Hardware configuration                                         |                         |
| Number of modules per DP slave interface, max.                 | 8                       |
| Time stamping                                                  |                         |
| Accuracy                                                       | 1 ms                    |
| Number of message buffers                                      | 15                      |
| Number of stampable digital inputs, max.                       | 128                     |
| Time format                                                    | RFC 1119 Internet (ISP) |
| Time resolution                                                | 0.466 ns                |
| Time stamp on signal change                                    | 1                       |
| Interfaces                                                     |                         |
| Transmission procedure                                         | RS 485                  |
| Interface physics, RS 485                                      | Yes                     |

|                                                       |                      |
|-------------------------------------------------------|----------------------|
| PROFIBUS DP                                           |                      |
| • Node addresses                                      | 1 to 125             |
| • automatic detection of transmission rate            | Yes                  |
| • Output current, max.                                | 70 mA                |
| • Transmission rate, max.                             | 12 Mbit/s            |
| • SYNC capability                                     | Yes                  |
| • FREEZE capability                                   | Yes                  |
| • Direct data exchange (slave-to-slave communication) | Yes; only with F- DO |
| • Connector type                                      | 9-pin sub D          |
| 1. Interface                                          |                      |
| DP slave                                              |                      |
| • GSD file                                            | SI03801E.GSG         |
| • automatic baud rate search                          | Yes                  |
| Protocols                                             |                      |
| Bus protocol/transmission protocol                    | PROFIBUS DP          |
| 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                   |                      |
| • Installation altitude above sea level, max.         | 3 500 m              |
| Configuration                                         |                      |
| Configuration software                                |                      |
| • STEP 7                                              | Yes                  |
| Dimensions                                            |                      |
| Width                                                 | 40 mm                |
| Height                                                | 125 mm               |
| Depth                                                 | 117 mm               |
| Weights                                               |                      |
| Weight, approx.                                       | 350 g                |
| <b>last modified:</b>                                 | 08/12/2017           |