

\*\*\* SPARE PART\*\*\* SIMATIC DP, ET 200M INTERFACE IM 153-2  
FO HIGH FEATURE FOR MAX. 8 S7-300 MODULES, WITH  
REDUNDANCY, W. INTEGR. FO INTERFACE FOR CONFIGURING  
AN OPTICAL LINE



Figure similar

| General information                                         |                    |
|-------------------------------------------------------------|--------------------|
| Vendor identification (VendorID)                            | 8071h              |
| Supply voltage                                              |                    |
| Rated value (DC)                                            | Yes                |
| • 24 V DC                                                   |                    |
| 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.                                   | 500 mA; at 24 V DC |
| Inrush current, typ.                                        | 3.5 A              |
| I²t                                                         | 0.1 A²·s           |

|                                                                           |                                                                                           |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Output voltage                                                            |                                                                                           |
| Rated value (DC)                                                          | 5 V                                                                                       |
| Output current                                                            |                                                                                           |
| for backplane bus (5 V DC), max.                                          | 1 A                                                                                       |
| Power loss                                                                |                                                                                           |
| Power loss, typ.                                                          | 4.5 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                                                                  | 10 ms; 10 ms / 3 ms                                                                       |
| Number of message buffers                                                 | 15                                                                                        |
| Messages per message buffer                                               | 20                                                                                        |
| Number of stampable digital inputs, max.                                  | 128                                                                                       |
| Time format                                                               | RFC 1119 Internet (ISP)                                                                   |
| Time resolution                                                           | 1 ms                                                                                      |
| Time interval for transmitting the message buffer if a message is present | 1 000 ms                                                                                  |
| Time stamp on signal change                                               | rising / falling edge as signal entering or exiting                                       |
| Interfaces                                                                |                                                                                           |
| Transmission procedure                                                    | FOC, wavelength 660 nm                                                                    |
| Interface physics, RS 485                                                 | No                                                                                        |
| Interface physics, FOC                                                    | Yes                                                                                       |
| PROFIBUS DP                                                               |                                                                                           |
| • Node addresses                                                          | 1 to 125 permitted                                                                        |
| • automatic detection of transmission rate                                | Yes                                                                                       |
| • Transmission rate, max.                                                 | 12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 12 Mbit/s               |
| • SYNC capability                                                         | Yes                                                                                       |
| • FREEZE capability                                                       | Yes                                                                                       |
| • Direct data exchange (slave-to-slave communication)                     | Yes; Sender                                                                               |
| • Connector type                                                          | Optical, 2 x duplex sockets                                                               |
| 1. Interface                                                              |                                                                                           |
| DP slave                                                                  |                                                                                           |
| • GSD file                                                                | (for DPV1) SIEM8071.GSD; SI018071.GSG (for IM 153-2AB0x); SI028071.GSG (for IM 153-2BB0x) |

|                                               |                                                             |
|-----------------------------------------------|-------------------------------------------------------------|
| • automatic baud rate search                  | Yes                                                         |
| <b>Protocols</b>                              |                                                             |
| Bus protocol/transmission protocol            | PROFIBUS DP to EN 50170                                     |
| <b>Isolation</b>                              |                                                             |
| Isolation tested with                         | Isolation voltage 500 V                                     |
| <b>Degree and class of protection</b>         |                                                             |
| Degree of protection acc. to EN 60529         |                                                             |
| • IP20                                        | Yes                                                         |
| <b>Ambient conditions</b>                     |                                                             |
| Ambient temperature during operation          |                                                             |
| • min.                                        | 0 °C                                                        |
| • max.                                        | 60 °C                                                       |
| Air pressure acc. to IEC 60068-2-13           |                                                             |
| • Installation altitude above sea level, max. | 3 000 m                                                     |
| <b>Configuration</b>                          |                                                             |
| Configuration software                        |                                                             |
| • STEP 7                                      | Yes; STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file |
| <b>Dimensions</b>                             |                                                             |
| Width                                         | 40 mm                                                       |
| Height                                        | 125 mm                                                      |
| Depth                                         | 117 mm                                                      |
| <b>Weights</b>                                |                                                             |
| Weight, approx.                               | 360 g                                                       |
| <b>last modified:</b>                         | 08/12/2017                                                  |