

\*\*\*SPARE PART\*\*\* SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRONOUS MODE NEW FEATURES: UP TO 12 MODULES / STATION SLAVE INITIATIVE FOR DRIVE ES AND SWITCH ES EXTENDED DATA FOR HART SECONDARY VARIABLES OPERATOR OF 64-CHANNEL MODULES 32 SIGNALS / SLOT



Figure similar

| General information   |                       |
|---|-----------------------|
| Vendor identification (VendorID)                            | 801Eh                 |
| 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) | 2,5 A                 |
| Mains buffering   |                       |
| • Mains/voltage failure stored energy time                  | 5 ms                  |
| Input current   |                       |
| Current consumption, max.                                   | 600 mA                |
| Inrush current, typ.  | 3 A                   |
| I <sup>2</sup> t  | 0.1 A <sup>2</sup> ·s |

| Output voltage  |  |
|---|--|
| Rated value (DC)  | 5 V  |
| Output current  |  |
| for backplane bus (5 V DC), max.  | 1.5 A  |
| Power loss  |  |
| Power loss, typ.  | 5.5 W  |
| Address area  |  |
| Addressing volume   |  |
| • Inputs  | 244 byte   |
| • Outputs   | 244 byte   |
| Hardware configuration  |  |
| Number of modules per DP slave interface, max.                            | 12   |
| Time stamping   |  |
| Accuracy  | 1 ms; 1ms at up to 8 modules; 10ms at up to 12 modules |
| Number of message buffers   | 15   |
| Messages per message buffer   | 20   |
| Number of stampable digital inputs, max.                                  | 128; Max. 128 signals/station; max. 32 signals/slot    |
| Time format   | RFC 1119   |
| Time resolution   | 0.466 ns   |
| 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  |  |
| 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.  | 70 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  |
| 1. Interface  |  |
| DP slave  |  |
| • GSD file  | SI04801.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

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

### Configuration

Configuration software

- STEP 7

Yes; 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:** 03/11/2017