



SIMATIC DP, INTERFACE DP/PA-LINK A. ET200M IM153-2 HF FOR EXPANDED TEMPERATURE RANGE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRON MODE NEW FEATURES: UP TO 12 MODULES CAN BE USED SLAVE INITIATIVE FOR DRIVE ES AND SWITCH ES EXTENDED DATA FOR HART SECON- DARY VARIABLES OPERATON W. 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. | 650 mA |
| Inrush current, typ. | 3 A |
| I ² t | 0.1 A ² ·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 | SI0480E.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. -25 °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