

SIPLUS DP ET200M IM153-1 -40...+70°C start up Temp -25°C with conformal coating based on 6ES7153-1AA03-0XB0 . INTERFACE FOR ET 200M, FOR MAX. 8 S7-300 MODULES



Figure similar

| 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 |
| 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 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 slave 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 |
| PROFIBUS DP slave | |
| • 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 | |
| <ul style="list-style-type: none"> • min. • max. • At cold restart, min. | <p>-40 °C; = Tmin</p> <p>70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use</p> <p>-25 °C</p> |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • min. • max. | <p>-40 °C</p> <p>70 °C</p> |
| Altitude during operation relating to sea level | |
| <ul style="list-style-type: none"> • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude | <p>5 000 m</p> <p>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)</p> |
| Relative humidity | |
| <ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| Resistance | |
| Use in stationary industrial systems | |
| <ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 | <p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request</p> <p>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 3S4 incl. sand, dust, *</p> |
| Use on ships/at sea | |
| <ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 | <p>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</p> <p>Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 6S3 incl. sand, dust; *</p> |
| Usage in industrial process technology | |
| <ul style="list-style-type: none"> — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | <p>Yes; Class 3 (excluding trichlorethylene)</p> <p>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</p> |
| Remark | |
| <ul style="list-style-type: none"> — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Configuration | |

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

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