

SIMATIC DP, Interface module IM151-1 High Feature f. ET200S;  
Transmission rate to 12 Mbit/s; data volume 244 bytes each for I/O  
max. 63 modules can be connected; isochronous mode Bus  
connection via 9-pin D-sub incl. termination module



Figure similar

| General information                        |             |
|--------------------------------------------|-------------|
| Product type designation                   | IM 151-1 HF |
| Supply voltage                             |             |
| Mains buffering                            |             |
| • Mains/voltage failure stored energy time | 20 ms       |
| Input current                              |             |
| from supply voltage 1L+, max.              | 200 mA      |
| Power loss                                 |             |
| Power loss, typ.                           | 3.3 W       |
| Address area                               |             |
| Addressing volume                          |             |
| • Inputs                                   | 244 byte    |
| • Outputs                                  | 244 byte    |
| Interfaces                                 |             |
| Interface physics, RS 485                  | Yes         |

|                                                                 |                 |
|-----------------------------------------------------------------|-----------------|
| PROFIBUS DP                                                     |                 |
| • Transmission rate, max.                                       | 12 Mbit/s       |
| • SYNC capability                                               | Yes             |
| • FREEZE capability                                             | Yes             |
| • Direct data exchange (slave-to-slave communication)           | Yes             |
| Protocols                                                       |                 |
| Supports protocol for PROFINET IO                               | No              |
| PROFIBUS DP                                                     | Yes             |
| Protocols (Ethernet)                                            |                 |
| • TCP/IP                                                        | No              |
| Isochronous mode                                                |                 |
| Isochronous operation (application synchronized up to terminal) | Yes             |
| Interrupts/diagnostics/status information                       |                 |
| Alarms                                                          | Yes             |
| Diagnostics function                                            | Yes             |
| Diagnostics indication LED                                      |                 |
| • Bus fault BF (red)                                            | Yes             |
| • Group error SF (red)                                          | Yes             |
| • Monitoring 24 V voltage supply ON (green)                     | Yes             |
| Potential separation                                            |                 |
| between backplane bus and electronics                           | No              |
| between electronic block and PROFIBUS DP                        | Yes             |
| between supply voltage and electronics                          | No              |
| Permissible potential difference                                |                 |
| between different circuits                                      | 75 V DC/60 V AC |
| Isolation                                                       |                 |
| Isolation tested with                                           | 500 V DC        |
| Standards, approvals, certificates                              |                 |
| CE mark                                                         | Yes             |
| UL approval                                                     | Yes             |
| Ambient conditions                                              |                 |
| Ambient temperature during operation                            |                 |
| • min.                                                          | 0 °C            |
| • max.                                                          | 60 °C           |
| Dimensions                                                      |                 |
| Width                                                           | 45 mm           |
| Height                                                          | 119.5 mm        |

|                       |            |
|-----------------------|------------|
| Depth                 | 75 mm      |
| Weights               |            |
| Weight, approx.       | 150 g      |
| <b>last modified:</b> | 02/11/2019 |