




SIMATIC DP, Connection ET 200M IM 153-4 PN IO High Feature for max. 12 S7-300 modules, supports fail-safe module, HART modules, shared device, Medium Redundancy Protocol

| General information   |  |
|---|--|
| Product type designation  | IM 153-4 PN HF   |
| Vendor identification (VendorID)  | 002AH  |
| Device identifier (DeviceID)  | 0302H  |
| 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)   | In a construction with grounded reference potential, a fuse is necessary for redundant interface modules (Recommendation: 2.5 A) |
| Mains buffering   |  |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>                      | 5 ms   |
| Input current   |  |
| Current consumption, max.   | 600 mA; with 24 V DC supply  |
| Inrush current, typ.  | 4 A  |
| I <sup>2</sup> t  | 0.09 A <sup>2</sup> ·s   |
| output voltage / header   |  |
| Rated value (DC)  | 5 V  |
| Output current  |  |
| for backplane bus (5 V DC), max.  | 1.5 A  |
| Power loss  |  |
| Power loss, typ.  | 6 W  |
| Address area  |  |
| Addressing volume   |  |
| <ul style="list-style-type: none"> <li>Inputs</li> <li>Outputs</li> </ul>                                       | 672 byte; Extended HART user data<br>192 byte  |
| Hardware configuration  |  |
| Number of modules per DP slave interface, max.  | 12   |
| Protocols   |  |
| Bus protocol/transmission protocol  | PROFINET IO  |
| Protocols (Ethernet)  |  |
| <ul style="list-style-type: none"> <li>TCP/IP</li> <li>SNMP</li> <li>LLDP</li> <li>ping</li> <li>ARP</li> </ul> | Yes<br>Yes<br>Yes<br>Yes<br>Yes  |
| PROFINET IO Device  |  |
| Services  |  |
| — IRT   | Yes  |

|  |  |
|--|--|
| — PROFlenergy  | No   |
| — Prioritized startup                                  | Yes  |
| — Shared device  | Yes  |
| — Number of IO Controllers with shared device, max.    | 2  |
| <b>Redundancy mode</b>                                 |  |
| • PROFINET system redundancy (S2)                      | Yes  |
| <b>Media redundancy</b>                                |  |
| — MRP  | Yes  |
| <b>Interrupts/diagnostics/status information</b>       |  |
| <b>Diagnostics indication LED</b>                      |  |
| • LINK LED   | Yes; green LED   |
| • RX/TX LED  | Yes; Yellow LED  |
| • for module diagnostics                               | Yes  |
| <b>Potential separation</b>                            |  |
| Potential separation exists                            | Yes; Only direction PROFINET, RWB is not separated   |
| <b>Isolation</b>                                       |  |
| Isolation tested with                                  | Between PROFINET and 24 V supply: 1 500 V AC, between functional grounding and 24 V supply: 500 V DC |
| <b>Degree and class of protection</b>                  |  |
| IP degree of protection                                | IP20   |
| <b>Ambient conditions</b>                              |  |
| <b>Ambient temperature during operation</b>            |  |
| • min.   | 0 °C   |
| • max.   | 60 °C  |
| <b>Altitude during operation relating to sea level</b> |  |
| • Installation altitude above sea level, max.          | 2 000 m  |
| <b>Dimensions</b>                                      |  |
| Width  | 40 mm  |
| Height   | 125 mm   |
| Depth  | 118 mm   |
| <b>Weights</b>   |  |
| Weight, approx.  | 215 g  |
| <b>last modified:</b>                                  | 3/2/2021          |