

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 |
| <ul style="list-style-type: none"> • 24 V DC | Yes |
| 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"> • Mains/voltage failure stored energy time | 5 ms |
| Input current | |
| Current consumption, max. | 600 mA; with 24 V DC supply |
| Inrush current, typ. | 4 A |
| I ² t | 0.09 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. | 6 W |
| Address area | |
| Addressing volume | |
| • Inputs | 672 byte; Extended HART user data |
| • Outputs | 192 byte |
| Hardware configuration | |
| Number of modules per DP slave interface, max. | 12 |
| Protocols | |
| Bus protocol/transmission protocol | PROFINET IO |
| Protocols (Ethernet) | |
| • TCP/IP | Yes |
| • SNMP | Yes |
| • LLDP | Yes |
| • ping | Yes |
| • ARP | Yes |
| PROFINET IO Device | |
| Services | |
| — Isochronous mode | Yes |
| — IRT | Yes |
| — PROFINergy | No |
| — Prioritized startup | Yes |
| — Shared device | Yes |
| — Number of IO Controllers with shared device, max. | 2 |
| Redundancy mode | |
| • MRP | Yes |
| • PROFINET system redundancy (S2) | Yes |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| • for module diagnostics | Yes |
| • Connection to network LINK (green) | Yes |
| • Transmit/receive RX/TX (yellow) | Yes |
| Potential separation | |
| Potential separation exists | Yes; Only direction PROFINET, RWB is not separated |

| Isolation | |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Isolation tested with | Between PROFINET and 24 V supply: 1 500 V AC, between functional grounding and 24 V supply: 500 V DC |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | 0 °C |
| • max. | 60 °C |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 2 000 m |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 118 mm |
| Weights | |
| Weight, approx. | 215 g |
| last modified: | 08/16/2019 |