



\*\*\* spare part \*\*\* SIMATIC DP, connection ET 200M IM 153-4 PN IO High Feature for max. 12 S7-300 modules, supports fail-safe modules, 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                                             |                                                                                                                                  |
| • 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 <sup>2</sup> t                                            | 0.09 A <sup>2</sup> ·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 device interface, max.             | 12                                                                                                                               |
| 1. Interface                                                |                                                                                                                                  |
| PROFINET IO Device                                          |                                                                                                                                  |
| Services                                                    |                                                                                                                                  |
| — IRT                                                       | Yes                                                                                                                              |
| — PROFIenergy                                               | No                                                                                                                               |
| — Prioritized startup                                       | Yes                                                                                                                              |
| — Shared device                                             | Yes                                                                                                                              |
| — Number of IO Controllers with shared device, max.         | 2                                                                                                                                |
| Protocols                                                   |                                                                                                                                  |
| Bus protocol/transmission protocol                          | PROFINET IO                                                                                                                      |
| Protocols (Ethernet)                                        |                                                                                                                                  |

|                                                        |                                                                                                      |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| • TCP/IP                                               | Yes                                                                                                  |
| • SNMP                                                 | Yes                                                                                                  |
| • LLDP                                                 | Yes                                                                                                  |
| • ping                                                 | Yes                                                                                                  |
| • ARP                                                  | Yes                                                                                                  |
| <b>Redundancy mode</b>                                 |                                                                                                      |
| • PROFINET system redundancy (S2)                      | Yes; on S7-400H                                                                                      |
| <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>Classifications</b>                                 |                                                                                                      |

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 16      | 27-24-26-08    |
| eClass | 14      | 27-24-26-08    |
| eClass | 12      | 27-24-26-08    |
| eClass | 9.1     | 27-24-26-08    |
| eClass | 9       | 27-24-26-08    |
| eClass | 8       | 27-24-26-08    |
| eClass | 7.1     | 27-24-26-08    |
| eClass | 6       | 27-24-26-08    |
| ETIM   | 10      | EC001604       |
| ETIM   | 9       | EC001604       |
| ETIM   | 8       | EC001604       |
| ETIM   | 7       | EC001604       |
| IDEA   | 4       | 3564           |
| UNSPSC | 15      | 32-15-17-05    |

|                                 |  |
|---------------------------------|--|
| <b>Approvals / Certificates</b> |  |
| <b>General Product Approval</b> |  |



[Miscellaneous](#)



|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



[China RoHS](#)

[Manufacturer Declaration](#)



|     |                                |
|-----|--------------------------------|
| EMV | For use in hazardous locations |
|-----|--------------------------------|



[FM](#)



|                                |                      |
|--------------------------------|----------------------|
| For use in hazardous locations | Maritime application |
|--------------------------------|----------------------|

[Miscellaneous](#)

[CCC-Ex](#)



|                      |                          |
|----------------------|--------------------------|
| Maritime application | Industrial Communication |
|----------------------|--------------------------|

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

[PROFINET](#)

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