




SIMATIC ET 200MP. PROFIBUS connection IM 155-5 DP ST for max. 12 S7-1500 modules Including PROFIBUS connection plug (6ES7972-0BB70-0XA0)

| General information  |                                    |
|--|------------------------------------|
| Product type designation   | IM 155-5 DP ST                     |
| HW functional status   | From FS01                          |
| Firmware version   | V2.0.0                             |
| Vendor identification (VendorID)   | 81AAh                              |
| Product function   |                                    |
| <ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>   | Yes; I&M0 to I&M3                  |
| <ul style="list-style-type: none"> <li>Module swapping during operation (hot swapping)</li> </ul>        | No                                 |
| <ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>                                       | No                                 |
| Engineering with   |                                    |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul> | V13 / V13                          |
| <ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>            | V5.5 SP3 / -                       |
| <ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>                 | V1.0 / V5.1                        |
| Configuration control  |                                    |
| via user data  | No                                 |
| via dataset  | No                                 |
| Supply voltage   |                                    |
| Rated value (DC)   | 24 V                               |
| permissible range, lower limit (DC)  | 19.2 V                             |
| permissible range, upper limit (DC)  | 28.8 V                             |
| Reverse polarity protection  | Yes                                |
| Short-circuit protection   | Yes                                |
| Mains buffering  |                                    |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>               | 5 ms                               |
| Input current  |                                    |
| Current consumption (rated value)  | 0.2 A; at 24 V DC and without load |
| Current consumption, max.  | 1.2 A; at 20.4 V DC and max. load  |
| Inrush current, max.   | 4 A                                |
| $I^2t$   | 0.09 A <sup>2</sup> ·s             |
| from interface 5 V DC, max.  | 80 mA                              |
| Power  |                                    |
| Infeed power to the backplane bus  | 14 W                               |
| Power loss   |                                    |
| Power loss, typ.   | 4 W                                |
| Address area   |                                    |
| Address space per module   |                                    |
| <ul style="list-style-type: none"> <li>Address space per module, max.</li> </ul>                         | 32 byte; per input / output        |
| Address space per station  |                                    |

|  |   |
|--|---|
| • Address space per station, max.                      | 244 byte; per input / output  |
| <b>Hardware configuration</b>                          |   |
| Integrated power supply                                | Yes   |
| System power supply can be plugged in to left of IM    | No  |
| Number of permissible power segments                   | 1   |
| <b>Rack</b>  |   |
| • Modules per rack, max.                               | 12; I/O modules   |
| <b>Interfaces</b>                                      |   |
| Number of PROFIBUS interfaces                          | 1   |
| <b>1. Interface</b>                                    |   |
| <b>Interface types</b>                                 |   |
| • RS 485   | Yes   |
| <b>Protocols</b>                                       |   |
| • PROFIBUS DP slave                                    | Yes   |
| <b>Interface types</b>                                 |   |
| <b>RS 485</b>  |   |
| • Transmission rate, max.                              | 12 Mbit/s   |
| <b>Protocols</b>                                       |   |
| <b>Open IE communication</b>                           |   |
| • TCP/IP   | No  |
| <b>PROFIBUS DP</b>                                     |   |
| <b>Services</b>  |   |
| — SYNC capability                                      | Yes   |
| — FREEZE capability                                    | Yes   |
| — DPV1   | Yes   |
| <b>Interrupts/diagnostics/status information</b>       |   |
| Status indicator                                       | Yes   |
| Alarms   | Yes   |
| Diagnostics function                                   | Yes   |
| <b>Diagnostics indication LED</b>                      |   |
| • RUN LED  | Yes; green LED  |
| • ERROR LED  | Yes; red LED  |
| • MAINT LED  | Yes; Yellow LED   |
| • Connection display DP                                | Yes; green LED  |
| <b>Potential separation</b>                            |   |
| between backplane bus and electronics                  | No  |
| between PROFIBUS DP and all other circuit components   | Yes   |
| between supply and all other circuits                  | No  |
| <b>Isolation</b>                                       |   |
| Isolation tested with                                  | 707 V DC (type test)  |
| <b>Ambient conditions</b>                              |   |
| <b>Ambient temperature during operation</b>            |   |
| • horizontal installation, min.                        | -25 °C; from FS04   |
| • horizontal installation, max.                        | 60 °C   |
| • vertical installation, min.                          | -25 °C; from FS04   |
| • vertical installation, max.                          | 40 °C   |
| <b>Altitude during operation relating to sea level</b> |   |
| • Installation altitude above sea level, max.          | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual                        |
| <b>connection method / header</b>                      |   |
| <b>ET-Connection</b>                                   |   |
| • via BU/BA Send                                       | No  |
| <b>Dimensions</b>                                      |   |
| Width  | 35 mm   |
| Height   | 147 mm  |
| Depth  | 129 mm  |
| <b>Weights</b>   |   |
| Weight, approx.  | 360 g   |
| <b>last modified:</b>                                  | 4/26/2021  |

