# SIEMENS

**Data sheet**                                                  **6ES7155-5BA00-0AB0**

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 | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Module swapping during operation (hot swapping) | No |
| ● Isochronous mode | No |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | V13 / V13 |
| ● STEP 7 configurable/integrated from version | V5.5 SP3 / - |
| ● PROFIBUS from GSD version/GSD revision | 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 | |
| ● Mains/voltage failure stored energy time | 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 |
| I²t | 0.09 A²·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 | |

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| | |
|---|---|
| ● Address space per module, max. | 32 byte; per input / output |
| **Address space per station** | |
| ● Address space per station, max. | 244 byte; per input / output |
| **Hardware configuration** | |
| Integrated power supply | Yes |
| System power supply can be plugged in to left of IM | No |
| Number of permissible power segments | 1 |
| **Rack** | |
| ● Modules per rack, max. | 12; I/O modules |
| **Interfaces** | |
| Number of PROFIBUS interfaces | 1 |
| **1. Interface** | |
| **Interface types** | |
| ● RS 485 | Yes |
| **Protocols** | |
| ● PROFIBUS DP slave | Yes |
| **Interface types** | |
| **RS 485** | |
| ● Transmission rate, max. | 12 Mbit/s |
| **Protocols** | |
| **Open IE communication** | |
| ● TCP/IP | No |
| **PROFIBUS DP** | |
| Services | |
| — SYNC capability | Yes |
| — FREEZE capability | Yes |
| — DPV1 | Yes |
| **Interrupts/diagnostics/status information** | |
| Status indicator | Yes |
| Alarms | Yes |
| Diagnostics function | Yes |
| **Diagnostics indication LED** | |
| ● RUN LED | Yes; green LED |
| ● ERROR LED | Yes; red LED |
| ● MAINT LED | Yes; Yellow LED |
| ● Connection display DP | Yes; green LED |
| **Potential separation** | |
| between backplane bus and electronics | No |
| between PROFIBUS DP and all other circuit components | Yes |
| between supply and all other circuits | No |
| **Isolation** | |
| Isolation tested with | 707 V DC (type test) |
| **Ambient conditions** | |
| **Ambient temperature during operation** | |
| ● horizontal installation, min. | -25 °C; from FS04 |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -25 °C; from FS04 |
| ● vertical installation, max. | 40 °C |
| **Altitude during operation relating to sea level** | |
| ● Installation altitude above sea level, max. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |
| **Connection method** | |
| **ET-Connection** | |
| ● via BU/BA Send | No |
| **Dimensions** | |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |

| Weights | |
|---|---|
| Weight, approx. | 360 g |

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