



Figure similar

SIPLUS ET 200MP IM155-5 DP ST based on 6ES7155-5BA00-0AB0 with conformal coating, -40...+60 °C, start up -25 °C, PROFIBUS connection for max. 12 S7-1500 modules

| General information | |
|--|---|
| Product type designation | IM 155-5 DP ST |
| Firmware version | |
| • FW update possible | Yes |
| Vendor identification (VendorID) | 81AAh |
| based on | 6ES7155-5BA00-0AB0 |
| Product function | |
| • I&M data | Yes; I&M0 to I&M3 |
| • Module swapping during operation (hot swapping) | No |
| • Isochronous mode | No |
| • IRT | No |
| • Tool changer | No |
| • Local coupling, IO data | No |
| Engineering with | |
| • STEP 7 TIA Portal configurable/integrated from version | see entry ID: 109746275 |
| Configuration control | |
| 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 |
| I _{pt} | 0.09 A ² ·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 | |
| • Address space per module, max. | 64 byte; For input and output data respectively |

| | |
|--|--|
| Address space per station | |
| • Address space per station, max. | 244 byte; For input and output data respectively |
| Hardware configuration | |
| Integrated power supply | Yes; 14 W |
| System power supply can be plugged in to left of IM | No |
| Number of permissible power segments | 1; incl. interface module |
| Rack | |
| • Modules per rack, max. | 12; I/O modules |
| Interfaces | |
| Number of PROFIBUS interfaces | 1; 1 port |
| 1. Interface | |
| Interface types | |
| • RS 485 | Yes |
| • Number of ports | 1 |
| • integrated switch | No |
| • BusAdapter (PROFINET) | No |
| Protocols | |
| • PROFIBUS DP device | Yes |
| PROFINET IO Device | |
| Services | |
| — IRT | No |
| Interface types | |
| RS 485 | |
| • Transmission rate, max. | 12 Mbit/s |
| Protocols | |
| Supports protocol for PROFINET IO | No |
| PROFIsafe | Yes |
| PROFIBUS | Yes |
| EtherNet/IP | No |
| Modbus TCP | 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 |
| Permissible potential difference | |
| between different circuits | Safety extra low voltage SELV |
| Isolation | |
| Isolation tested with | 707 V DC (type test) |
| Standards, approvals, certificates | |
| Ecological footprint | |
| • environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 64.1 kg |
| — global warming potential, (during production) [CO2 eq] | 11.1 kg |

| | | | |
|---|---|---------|----------------|
| — global warming potential, (during operation) [CO2 eq] | 53.6 kg | | |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.669 kg | | |
| Ambient conditions | | | |
| Ambient temperature during operation | | | |
| • horizontal installation, min. | -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C | | |
| • horizontal installation, max. | 60 °C; = Tmax | | |
| Altitude during operation relating to sea level | | | |
| • Installation altitude above sea level, max. | 5 000 m | | |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | | |
| Relative humidity | | | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | | |
| Resistance | | | |
| Coolants and lubricants | | | |
| — Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | | |
| Use in stationary industrial systems | | | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | | |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation! | | |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation! | | |
| Use on ships/at sea | | | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | | |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | | |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * | | |
| Usage in industrial process technology | | | |
| — Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) | | |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | | |
| Remark | | | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! | | |
| Conformal coating | | | |
| • Coatings for printed circuit board assemblies acc. to EN 61086 | Yes; Class 2 for high reliability | | |
| • Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection | | |
| • Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life | | |
| • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A | | |
| Connection method | | | |
| ET-Connection | | | |
| • via BU/BA Send | No | | |
| Dimensions | | | |
| Width | 35 mm | | |
| Height | 147 mm | | |
| Depth | 129 mm | | |
| Weights | | | |
| Weight, approx. | 360 g | | |
| Classifications | | | |
| | | Version | Classification |

| | | |
|--------|-----|-------------|
| 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 |

| Approvals / Certificates | |
|--------------------------|-----|
| General Product Approval | EMV |



EG-Konf.

[Manufacturer Declaration](#)



[China RoHS](#)



UL



RCM

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



IECEX



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| Environment |
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