



SIMATIC ET 200SP, Digital input module, DI 4x 120..230V AC Standard, type 3 (IEC 61131), Packing unit: 1 piece, fits to BU-type B1, Colour Code CC41, module diagnostics

| General information | |
|--|---|
| Product type designation | DI 4x120 ... 230 V AC ST |
| HW functional status | from FS04 |
| Firmware version | V0.0 |
| <ul style="list-style-type: none"> FW update possible | No |
| usable BaseUnits | BU type B1 |
| Color code for module-specific color identification plate | CC41 |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| <ul style="list-style-type: none"> Isochronous mode | No |
| <ul style="list-style-type: none"> suitable for operation on PROFINET R1 IMs | Yes |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version | V14 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated from version | V5.5 SP3 |
| <ul style="list-style-type: none"> PROFIBUS from GSD version/GSD revision | One GSD file each, Revision 3 and 5 and higher |
| <ul style="list-style-type: none"> PROFINET from GSD version/GSD revision | GSDML V2.3 |
| Operating mode | |
| <ul style="list-style-type: none"> DI | Yes |
| <ul style="list-style-type: none"> Counter | No |
| <ul style="list-style-type: none"> Oversampling | No |
| <ul style="list-style-type: none"> MSI | No |
| Supply voltage | |
| Rated value (AC) | 230 V |
| permissible range, upper limit (AC) | 264 V |
| Reverse polarity protection | No |
| Input current | |
| Current consumption (rated value) | 10 mA |
| Encoder supply | |
| Number of outputs | 4 |
| Short-circuit protection | No; when using BU type B1, a fuse with 10 A tripping current must be provided |
| Output current | |
| <ul style="list-style-type: none"> up to 60 °C, max. | 10 A |
| Power loss | |
| Power loss, typ. | 1 W; Active power, load voltage 230 V, all inputs connected with 230 V, 50 Hz |
| Address area | |
| Address space per module | |

| | |
|---|---|
| • Address space per module, max. | 1 byte; + 1 byte for QI information |
| Hardware configuration | |
| Automatic encoding | Yes |
| • Mechanical coding element | Yes |
| • Type of mechanical coding element | type C |
| Selection of BaseUnit for connection variants | |
| • 1-wire connection | BU type B1 |
| • 2-wire connection | BU type B1 |
| • 3-wire connection | BU type B1 |
| • 4-wire connection | BU type B1 + potential distributor module |
| Digital inputs | |
| Number of digital inputs | 4 |
| Digital inputs, parameterizable | Yes |
| Source/sink input | P-reading |
| Input characteristic curve in accordance with IEC 61131, type 3 | Yes |
| Input voltage | |
| • Rated value (AC) | 230 V |
| • for signal "0" | 0V AC to 40V AC |
| • for signal "1" | 74 V AC to 264 V AC |
| Input current | |
| • for signal "1", typ. | 10.8 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | No |
| — at "0" to "1", min. | 1.5 ms |
| — at "0" to "1", max. | 4 ms |
| — at "1" to "0", min. | 10 ms |
| — at "1" to "0", max. | 10 ms |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Diagnostic alarm | No |
| • Maintenance interrupt | No |
| • Hardware interrupt | No |
| Diagnoses | |
| • Monitoring the supply voltage | No |
| • Wire-break | No |
| • Short-circuit | No |
| Diagnostics indication LED | |
| • Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| • Channel status display | Yes; green LED |
| • for channel diagnostics | No |
| • for module diagnostics | Yes; green/red DIAG LED |
| Potential separation | |
| Potential separation channels | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |
| • between the channels and the power supply of the electronics | No |
| Isolation | |
| Isolation tested with | 2 545 V DC/2 s (routine test) |
| Standards, approvals, certificates | |
| Suitable for safety functions | No |
| Ecological footprint | |

| | |
|--|-----------|
| • environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 15.9 kg |
| — global warming potential, (during production) [CO2 eq] | 3.69 kg |
| — global warming potential, (during operation) [CO2 eq] | 12.7 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.495 kg |

Ambient conditions

| | |
|---|--------|
| Ambient temperature during operation | |
| • horizontal installation, min. | -30 °C |
| • horizontal installation, max. | 60 °C |
| • vertical installation, min. | -30 °C |
| • vertical installation, max. | 50 °C |

Altitude during operation relating to sea level

| | |
|---|--|
| • Installation altitude above sea level, max. | 2 000 m; On request: Installation altitudes greater than 2 000 m |
|---|--|

Dimensions

| | |
|--------|-------|
| Width | 20 mm |
| Height | 73 mm |
| Depth | 58 mm |

Weights

| | |
|-----------------|------|
| Weight, approx. | 36 g |
|-----------------|------|

Classifications

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 27-24-26-04 |
| eClass | 12 | 27-24-26-04 |
| eClass | 9.1 | 27-24-26-04 |
| eClass | 9 | 27-24-26-04 |
| eClass | 8 | 27-24-26-04 |
| eClass | 7.1 | 27-24-26-04 |
| eClass | 6 | 27-24-26-04 |
| ETIM | 10 | EC001599 |
| ETIM | 9 | EC001599 |
| ETIM | 8 | EC001599 |
| ETIM | 7 | EC001599 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

Approvals / Certificates

General Product Approval

[Miscellaneous](#)



[Manufacturer Declaration](#)

[China RoHS](#)



General Product Approval For use in hazardous locations Maritime application

[KC](#)



[FM](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

Maritime application

Environment



Siemens
EcoTech



last modified:

9/19/2025

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