



SIMATIC ET 200SP HA, digital input module, DI 8x230VAC HA suitable for terminal block K0, color code CC41, Module diagnostics

| General information | |
|--|---|
| Product type designation | DI 8x230VAC HA |
| Firmware version | V1.0 |
| <ul style="list-style-type: none"> FW update possible | Yes |
| Usable terminal block | TB type K0 |
| Color code for module-specific color identification plate | CC42 |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version | V16 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated from version | V5.6 |
| <ul style="list-style-type: none"> PCS 7 configurable/integrated from version | V9.0 |
| <ul style="list-style-type: none"> PCS neo can be configured/integrated from version | V3.0 |
| <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 |
| Redundancy | |
| <ul style="list-style-type: none"> Redundancy capability | No |
| Supply voltage | |
| Rated value (AC) | 230 V |
| permissible range, lower limit (AC) | 85 V |
| permissible range, upper limit (AC) | 264 V |
| Power | |
| Power available from the backplane bus | 105 mW |
| Power loss | |
| Power loss, typ. | 1.8 W; Active power, load voltage 230 V, all inputs connected with 230 V, 50 Hz |
| Address area | |
| Address space per module | |
| <ul style="list-style-type: none"> Address space per module, max. | 1 byte; + 1 byte for QI information |
| Hardware configuration | |
| Automatic encoding | |
| <ul style="list-style-type: none"> Mechanical coding element | Yes |
| Digital inputs | |
| Number of digital inputs | 8; Isolated |
| Input characteristic curve in accordance with IEC 61131, type 3 | Yes |
| Input voltage | |
| <ul style="list-style-type: none"> Rated value (AC) | 230 V |
| <ul style="list-style-type: none"> for signal "0" | 0V AC to 40V AC |
| <ul style="list-style-type: none"> 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 | |
| — 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 | Yes |
| Diagnoses | |
| • Diagnostic information readable | Yes |
| Diagnostics indication LED | |
| • MAINT LED | Yes; Yellow LED |
| • Channel status display | Yes; green LED |
| • for module diagnostics | Yes; green/red DIAG LED |
| Potential separation | |
| Potential separation channels | |
| • between the channels | Yes |
| • between the channels, in groups of | 2 |
| • between the channels and backplane bus | Yes |
| Permissible potential difference | |
| between different circuits | Between channels: 230 V AC (same system phase) / 120 V AC (different system phase); between groups: 230 V AC (different system phase) |
| between channels and backplane bus/supply voltage | 230 V AC |
| Isolation | |
| tested with | |
| • between channels and backplane bus/supply voltage | 4 200 V DC/1 min, type test |
| • Between channels | 1 500 V AC/1 min, type test |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | -40 °C |
| • horizontal installation, max. | 70 °C |
| • vertical installation, min. | -40 °C |
| • vertical installation, max. | 60 °C |
| Dimensions | |
| Width | 22.5 mm |
| Height | 115 mm |
| Depth | 138 mm |
| Weights | |
| Weight, approx. | 148 g |

last modified: 1/17/2021 