

SIMATIC S7-200, DIGITAL I/O EM 223, FOR S7-22X CPU ONLY, 8 DI 24 V DC, SINK/SOURCE, 8 DO RELAY, 2A/POINT



Figure similar

| Supply voltage | |
|---|-------------------------------------|
| Load voltage L+ | |
| • Rated value (DC) | 24 V |
| • permissible range, lower limit (DC) | 5 V |
| • permissible range, upper limit (DC) | 30 V |
| Load voltage L1 | |
| • Rated value (AC) | 230 V; 24V AC to 230V AC |
| • permissible range, lower limit (AC) | 5 V |
| • permissible range, upper limit (AC) | 250 V |
| Input current | |
| from backplane bus 5 V DC, max. | 80 mA |
| from sensor current supply or external current supply (24 V DC), max. | 72 mA |
| from coil current, max. | 9 mA; for each output on signal "1" |
| Power loss | |
| Power loss, typ. | 3 W |

| Digital inputs | |
|---|--|
| Number of digital inputs | 8 |
| Input voltage | |
| <ul style="list-style-type: none"> Type of input voltage | AC/DC |
| <ul style="list-style-type: none"> Rated value (DC) | 24 V |
| <ul style="list-style-type: none"> for signal "0" | 0 to 5 V |
| <ul style="list-style-type: none"> for signal "1" | 15 V DC to 30 V DC |
| Input current | |
| <ul style="list-style-type: none"> for signal "1", typ. | 4 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| <ul style="list-style-type: none"> at "0" to "1", max. | 4.5 ms |
| Digital outputs | |
| Number of digital outputs | 8; Relays |
| Short-circuit protection | No |
| Output voltage | |
| <ul style="list-style-type: none"> for signal "0", max. | 0.1 V; with 10 kOhm load |
| <ul style="list-style-type: none"> for signal "1", min. | L+/L1 |
| Output current | |
| <ul style="list-style-type: none"> for signal "1" rated value | 2 000 mA |
| Total current of the outputs (per group) | |
| all mounting positions | |
| <ul style="list-style-type: none"> Current per conductor/group, max. | 8 A |
| Relay outputs | |
| <ul style="list-style-type: none"> Number of operating cycles, max. | 10 000 000; mechanically 10 million, at rated load voltage 100 000 |
| Switching capacity of contacts | |
| <ul style="list-style-type: none"> with inductive load, max. | 0.75 A; each output |
| <ul style="list-style-type: none"> on lamp load, max. | 200 W; 30 W with DC, 200 W with AC |
| <ul style="list-style-type: none"> with resistive load, max. | 0.75 A; each output |
| Cable length | |
| <ul style="list-style-type: none"> shielded, max. | 500 m |
| <ul style="list-style-type: none"> unshielded, max. | 150 m |
| Encoder | |
| Connectable encoders | |
| <ul style="list-style-type: none"> 2-wire sensor | Yes |
| <ul style="list-style-type: none"> permissible quiescent current (2-wire sensor), max. | 1 mA |
| Potential separation | |
| Potential separation digital inputs | |
| <ul style="list-style-type: none"> Potential separation digital inputs | Yes; Optocoupler |
| <ul style="list-style-type: none"> between the channels, in groups of | 4 |

| Potential separation digital outputs | |
|--|-------------|
| • Potential separation digital outputs | Yes; Relays |
| • between the channels, in groups of | 4 |
| Isolation | |
| Isolation tested with | 500 V AC |
| Connection method | |
| Plug-in I/O terminals | Yes |
| Dimensions | |
| Width | 71.2 mm |
| Height | 80 mm |
| Depth | 62 mm |
| Weights | |
| Weight, approx. | 300 g |
| last modified: | 09/10/2016 |