

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE
DIGITAL, FOR ET 200B, W=235MM, 32DI 24V DC, 3MS INPUT
DELAY

Supply voltage

| | |
|-------------------------------------|-------------------------------------|
| Rated value (DC) | 24 V; L5+; value at t < 0.5 s: 35 V |
| permissible range, lower limit (DC) | 18.5 V |
| permissible range, upper limit (DC) | 30.2 V |

Input current

| | |
|---------------------------|--|
| Current consumption, typ. | 70 mA; From L5+; logic |
| Current consumption, max. | 1 000 mA; from L5+; sensor |
| I^2t | 0.05 A ² ·s; with starting current inrush |

Power loss

| | |
|------------------|-------|
| Power loss, typ. | 4.8 W |
|------------------|-------|

Hardware configuration

| | |
|---|------------------------------------|
| Rack | |
| <ul style="list-style-type: none"> required terminal block | TB2/DC, TB2-4/DC, TB4/DC, TB4-4/DC |

Digital inputs

| | |
|--|-------------------------|
| Number of digital inputs | 32 |
| Input voltage | |
| <ul style="list-style-type: none"> Rated value (DC) | 24 V |
| <ul style="list-style-type: none"> for signal "0" | -30 to +5V |
| <ul style="list-style-type: none"> for signal "1" | 13 to 30V |
| Input current | |
| <ul style="list-style-type: none"> for signal "1", typ. | 4 mA; At 24 V min. 2 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| <ul style="list-style-type: none"> at "0" to "1", max. | 3 ms |
| Cable length | |
| <ul style="list-style-type: none"> unshielded, max. | 100 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. | 1.5 mA |

Interfaces

| | |
|-------------|--|
| PROFIBUS DP | |
|-------------|--|

- Transmission rate, max. 12 Mbit/s
- FREEZE capability Yes

Protocols

Bus protocol/transmission protocol PROFIBUS DP

Interrupts/diagnostics/status information

Diagnostics indication LED

- RUN LED Yes
- Bus fault BF (red) Yes
- Status indicator digital input (green) Yes

Potential separation

between electronic block and PROFIBUS DP Yes

Potential separation digital inputs

- Potential separation digital inputs No

Degree and class of protection

Degree of protection acc. to EN 60529 IP20

Ambient conditions

Ambient temperature during operation

- horizontal installation, min. 0 °C
- horizontal installation, max. 60 °C; 40°C for other mountings

Air pressure acc. to IEC 60068-2-13

- permissible range, lower limit 795 hPa
- permissible range, upper limit 1 080 hPa

Relative humidity

- Operation, min. 15 %
- Operation, max. 95 %; RH class 2 in accordance with IEC 1131-2

Vibrations

- Operation, tested according to IEC 60068-2-6 Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)

Shock test

- tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms

Connection method

Design of electrical connection for the inputs and outputs Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection

Dimensions

Width 235 mm; EB and TB
 Height 130 mm; EB and TB
 Depth 60 mm; EB and TB

Weights

Weight, approx. 800 g; EB and TB

last modified:

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