

\*\*\* 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 <sup>2</sup> ·s; with starting current inrush |

### Power loss

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

### Hardware configuration

|   |                                    |
|---|------------------------------------|
| Rack  |                                    |
| <ul style="list-style-type: none"> <li>required terminal block</li> </ul> | 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"> <li>Rated value (DC)</li> </ul> | 24 V       |
| <ul style="list-style-type: none"> <li>for signal "0"</li> </ul>   | -30 to +5V |
| <ul style="list-style-type: none"> <li>for signal "1"</li> </ul>   | 13 to 30V  |

|  |                         |
|--|-------------------------|
| Input current  |                         |
| <ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul> | 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"> <li>at "0" to "1", max.</li> </ul> | 3 ms |

|  |       |
|--|-------|
| Cable length   |       |
| <ul style="list-style-type: none"> <li>unshielded, max.</li> </ul> | 100 m |

### Encoder

|   |        |
|---|--------|
| Connectable encoders  |        |
| <ul style="list-style-type: none"> <li>2-wire sensor</li> </ul>                                       | Yes    |
| <ul style="list-style-type: none"> <li>permissible quiescent current (2-wire sensor), max.</li> </ul> | 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:

03/01/2017

