

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE
DIGITAL, FOR ET 200B, W=235MM, 32DI 24V DC, 0.2MS 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 ² t	0.05 A ² -s; with starting current inrush

Power loss

Power loss, typ.	4.8 W
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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	
— at "0" to "1", max.	0.2 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
— permissible quiescent current (2-wire sensor), max.	1.5 mA

Interfaces

PROFIBUS DP	
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- 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. 95 %
- Operation, max. 15 %; 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

