

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE
DIGITAL, FOR ET200B, W=235MM, 8DI/8RO, 120/230V AC,
APPLICABLE ON TB6/AC

General information

Usable terminal block	TB6/AC
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Supply voltage

Rated value (AC)	120/230 V AC
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Line frequency

- | | |
|----------------------------------|-------|
| • permissible range, lower limit | 47 Hz |
| • permissible range, upper limit | 63 Hz |

Input current

Current consumption, typ.	165 mA
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Digital inputs

Number of digital inputs	8
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Input voltage

- | | |
|--------------------|--------------|
| • Rated value (AC) | 120/230 V AC |
| • for signal "0" | 0 to 40V |
| • for signal "1" | 79 to 264V |

Input current

- | | |
|------------------------|---|
| • for signal "1", typ. | 10.5 mA; At 230 V AC/50 Hz and 6.5 mA at 120 V AC/50 Hz |
|------------------------|---|

Input delay (for rated value of input voltage)

for standard inputs

- | | |
|-----------------------|-------|
| — at "0" to "1", min. | 0 ms |
| — at "0" to "1", max. | 25 ms |

Cable length

- | | |
|--------------------|-------|
| • unshielded, max. | 600 m |
|--------------------|-------|

Digital outputs

Number of digital outputs	8; 2 high and 6 low current relays
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Short-circuit protection	Yes; Electronic
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Output voltage

- | | |
|--------------------|---------------------|
| • Rated value (DC) | 24 V DC to 150 V DC |
| • Rated value (AC) | 120/230 V AC |

Output current

- | | |
|--|-----------------------------------|
| • for signal "1" permissible range, max. | 4 A; 4 A (2 ports); 2 A (6 ports) |
|--|-----------------------------------|

Switching frequency

- | | |
|-----------------------------|-------|
| • with resistive load, max. | 10 Hz |
|-----------------------------|-------|

• with inductive load, max.	2 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	2 A
Cable length	
• unshielded, max.	100 m
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s
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
• Status indicator digital output (green)	Yes
Potential separation	
between electronic block and PROFIBUS DP	Yes
Potential separation digital inputs	
• Potential separation digital inputs	Yes
Potential separation digital outputs	
• Potential separation digital outputs	Yes
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 testing	
• 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

last modified:

08/12/2019