

*** SPARE PART*** SIMATIC DP, ELECT. SUBMODULE DIGITAL,
FOR ET200B, W=235MM 16RO, 120/230V AC, 2/4A APPLICABLE
ON TB6/AC RELAY SWITCHING VOLTAGE 230V AC

Supply voltage	
Rated value (AC)	120/230V AC
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Input current	
Current consumption, typ.	210 mA
Power loss	
Power loss, typ.	20 W
Hardware configuration	
Rack	
• required terminal block	TB6/AC
Digital outputs	
Number of digital outputs	16; 4 high and 12 low current relays
Short-circuit protection	No
Controlling a digital input	Yes
Output voltage	
• Rated value (DC)	24 V DC to 150 V DC
• Rated value (AC)	120/230V AC
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	2 Hz
Relay outputs	
Switching capacity of contacts	
— with resistive load, max.	4 A; 4 A (2 ports); 2 A (12 ports)
Cable length	
• unshielded, max.	600 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 output (green)	Yes
Potential separation	
between electronic block and PROFIBUS DP	Yes
Potential separation digital outputs	
• Potential separation digital outputs	Yes; Relays
• between the channels, in groups of	1
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
Height	130 mm
Depth	60 mm
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