

*** SPARE PART*** SIMATIC DP, DIGITAL ELECTRONIC
SUBMODULE FOR ET200B W=235MM, 16DO, 120/230V AC,0.5A

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.	150 mA
Power loss	
Power loss, max.	11 W
Hardware configuration	
Rack	
• required terminal block	TB6/AC
Digital outputs	
Number of digital outputs	16
Short-circuit protection	No
Controlling a digital input	Yes
Size of motor starter, max.	Size 3 to NEMA
Switching capacity of the outputs	
• on lamp load, max.	25 W
Output voltage	
• Rated value (AC)	120/230V AC
Output current	
• for signal "0" residual current, max.	1.3 mA
Parallel switching of two outputs	
• for logic links	Yes
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	0.35 A

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; 500 V DC to the logic, 1 500 V AC to connecting terminals
Potential separation digital outputs	
• Potential separation digital outputs	Yes; Optocoupler
• between the channels, in groups of	4
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	
Inputs/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.	805 g; EB and TB
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