

\*\*\* 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	
<ul style="list-style-type: none"> <li>permissible range, lower limit</li> </ul>	47 Hz
<ul style="list-style-type: none"> <li>permissible range, upper limit</li> </ul>	63 Hz
Input current	
Current consumption, typ.	150 mA
Power loss	
Power loss, max.	11 W
Hardware configuration	
Rack	
<ul style="list-style-type: none"> <li>required terminal block</li> </ul>	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	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	25 W
Output voltage	
<ul style="list-style-type: none"> <li>Rated value (AC)</li> </ul>	120/230V AC
Output current	
<ul style="list-style-type: none"> <li>for signal "0" residual current, max.</li> </ul>	1.3 mA
Parallel switching of two outputs	
<ul style="list-style-type: none"> <li>for logic links</li> </ul>	Yes
<ul style="list-style-type: none"> <li>for uprating</li> </ul>	No
<ul style="list-style-type: none"> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>	10 Hz
<ul style="list-style-type: none"> <li>with inductive load, max.</li> </ul>	0.5 Hz
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	0.35 A

<b>Cable length</b>	
• unshielded, max.	600 m
<b>Interfaces</b>	
<b>PROFIBUS DP</b>	
• Transmission rate, max.	12 Mbit/s
<b>Protocols</b>	
Bus protocol/transmission protocol	PROFIBUS DP
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostics indication LED</b>	
• RUN LED	Yes
• Bus fault BF (red)	Yes
• Status indicator digital output (green)	Yes
<b>Potential separation</b>	
between electronic block and PROFIBUS DP	Yes; 500 V DC to the logic, 1 500 V AC to connecting terminals
<b>Potential separation digital outputs</b>	
• Potential separation digital outputs	Yes; Optocoupler
• between the channels, in groups of	4
<b>Degree and class of protection</b>	
Degree of protection acc. to EN 60529	IP20
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C; 40°C for other mountings
<b>Air pressure acc. to IEC 60068-2-13</b>	
• permissible range, lower limit	795 hPa
• permissible range, upper limit	1 080 hPa
<b>Relative humidity</b>	
• Operation, min.	15 %
• Operation, max.	95 %; RH class 2 in accordance with IEC 1131-2
<b>Vibrations</b>	
• 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)
<b>Shock test</b>	
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
<b>Connection method</b>	
Design of electrical connection for the inputs and outputs	Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection
<b>Dimensions</b>	
Width	235 mm; EB and TB

Height	130 mm; EB and TB
Depth	60 mm; EB and TB
<b>Weights</b>	
Weight, approx.	805 g; EB and TB
<b>last modified:</b>	03/07/2017