

\*\*\* SPARE PART\*\*\* SIMATIC DP, DIGITAL ELECTRONIC  
SUBMODULE, FOR ET 200B, W=235MM, 16DI, 120/230V AC

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.	60 mA
Power loss	
Power loss, typ.	6 W; at 230 V; 4.5 W at 120 V
Hardware configuration	
Rack	
<ul style="list-style-type: none"> <li>required terminal block</li> </ul>	TB6/AC
Digital inputs	
Number of digital inputs	16
Input voltage	
<ul style="list-style-type: none"> <li>Rated value (AC)</li> </ul>	120/230V AC
<ul style="list-style-type: none"> <li>for signal "0"</li> </ul>	0 to 40V
<ul style="list-style-type: none"> <li>for signal "1"</li> </ul>	79 to 264V
Input current	
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	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	
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	600 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> <li>2-wire sensor</li> </ul>	No
— permissible quiescent current (2-wire sensor), max.	2 mA
Interfaces	
PROFIBUS DP	

• Transmission rate, max.	12 Mbit/s
<b>Protocols</b>	
Bus protocol/transmission protocol	PROFIBUS DP
<b>Interrupts/diagnostics/status information</b>	
Diagnostics indication LED	
• RUN LED	Yes
• Bus fault BF (red)	Yes
• Status indicator digital input (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
Potential separation digital inputs	
• Potential separation digital inputs	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>	
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
<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.	811 g; EB and TB

last modified:

03/01/2017