

\*\*\* SPARE PART\*\*\* SIMATIC DP, ELECTRONIC MODULE  
DIGITAL, FOR ET 200B, W=160MM, 8 RO 24V - 60V DC, DEGR.  
OF PROTECT. IP20, STANDARD

### Supply voltage

Rated value (DC)	24 V; L3+; value at t < 0.5 s: 35 V
permissible range, lower limit (DC)	18.5 V
permissible range, upper limit (DC)	30.2 V

### Input current

Current consumption, typ.	130 mA; from L3+; logic
I <sup>2</sup> t	0.05 A <sup>2</sup> ·s; with starting current inrush

### Power loss

Power loss, typ.	2 W
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### Hardware configuration

Rack	
<ul style="list-style-type: none"> <li>required terminal block</li> </ul>	TB1/DC, TB1-4/DC, TB3/DC, TB3-4/DC

### Digital outputs

Number of digital outputs	8; Relays
Short-circuit protection	No
Controlling a digital input	Yes

### Output voltage

<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V; 24 V DC to 60 V DC
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### 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>	2 Hz

### Relay outputs

Switching capacity of contacts	
— with inductive load, max.	0.5 A; at 30 V DC
— with resistive load, max.	2 A; at 24 V DC; max. 1.5 A at 48 V DC; max. 1 A at 60 V DC
— Thermal continuous current, max.	5 A

### Cable length

<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	100 m
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### Interfaces

PROFIBUS DP	
<ul style="list-style-type: none"> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
<ul style="list-style-type: none"> <li>SYNC capability</li> </ul>	Yes

Protocols	
Bus protocol/transmission protocol	PROFIBUS DP
Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>• RUN LED</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Bus fault BF (red)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Status indicator digital output (green)</li> </ul>	Yes
Potential separation	
between electronic block and PROFIBUS DP	Yes
Potential separation digital outputs	
<ul style="list-style-type: none"> <li>• Potential separation digital outputs</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• between the channels, in groups of</li> </ul>	1
Degree and class of protection	
Degree of protection acc. to EN 60529	IP20
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>• horizontal installation, min.</li> </ul>	0 °C
<ul style="list-style-type: none"> <li>• horizontal installation, max.</li> </ul>	60 °C; 40°C for other mountings
Air pressure acc. to IEC 60068-2-13	
<ul style="list-style-type: none"> <li>• permissible range, lower limit</li> </ul>	795 hPa
<ul style="list-style-type: none"> <li>• permissible range, upper limit</li> </ul>	1 080 hPa
Relative humidity	
<ul style="list-style-type: none"> <li>• Operation, min.</li> </ul>	15 %
<ul style="list-style-type: none"> <li>• Operation, max.</li> </ul>	95 %; RH class 2 in accordance with IEC 1131-2
Vibrations	
<ul style="list-style-type: none"> <li>• Operation, tested according to IEC 60068-2-6</li> </ul>	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	
<ul style="list-style-type: none"> <li>• tested according to IEC 60068-2-27</li> </ul>	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	160 mm; EB and TB
Height	130 mm; EB and TB
Depth	60 mm; EB and TB
Weights	
Weight, approx.	650 g; EB and TB
<b>last modified:</b>	03/07/2017