

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DI  
STANDARD 24V DC, 15 MM WIDTH, 5 PIECES PER PACKAGING  
UNIT



| Supply voltage                    |                              |
|-----------------------------------|------------------------------|
| Rated value (DC)                  |                              |
| • 24 V DC                         | Yes; From power module       |
| Reverse polarity protection       | Yes                          |
| Input current                     |                              |
| from supply voltage L+, max.      | Dependent on encoder         |
| from backplane bus 3.3 V DC, max. | 10 mA                        |
| Encoder supply                    |                              |
| Type of output voltage            | min. L+ (-0.5 V), under load |
| Output current                    |                              |
| • Rated value                     | 500 mA                       |
| • permissible range, lower limit  | 0 mA                         |
| • permissible range, upper limit  | 500 mA                       |
| Power loss                        |                              |
| Power loss, typ.                  | 0.7 W                        |
| Address area                      |                              |
| Address space per module          |                              |

|                                                                                                                                                                                                 |                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• with packing</li> <li>• without packing</li> </ul>                                                                                                     | 4 bit<br>1 byte                                                        |
| <b>Digital inputs</b>                                                                                                                                                                           |                                                                        |
| Number of digital inputs                                                                                                                                                                        | 4                                                                      |
| Input characteristic curve in accordance with IEC 61131, type 1                                                                                                                                 | Yes                                                                    |
| <b>Input voltage</b>                                                                                                                                                                            |                                                                        |
| <ul style="list-style-type: none"> <li>• Type of input voltage</li> <li>• Rated value (DC)</li> <li>• for signal "0"</li> <li>• for signal "1"</li> </ul>                                       | DC<br>24 V<br>-30 to +5V<br>+15 to +30V                                |
| <b>Input current</b>                                                                                                                                                                            |                                                                        |
| <ul style="list-style-type: none"> <li>• for signal "1", typ.</li> </ul>                                                                                                                        | 7 mA; at 24 V                                                          |
| <b>Input delay (for rated value of input voltage)</b>                                                                                                                                           |                                                                        |
| for standard inputs                                                                                                                                                                             |                                                                        |
| <ul style="list-style-type: none"> <li>— parameterizable</li> <li>— at "0" to "1", min.</li> <li>— at "0" to "1", max.</li> <li>— at "1" to "0", min.</li> <li>— at "1" to "0", max.</li> </ul> | No<br>2 ms; typically 3 ms<br>4.5 ms<br>2 ms; typically 3 ms<br>4.5 ms |
| <b>Cable length</b>                                                                                                                                                                             |                                                                        |
| <ul style="list-style-type: none"> <li>• shielded, max.</li> <li>• unshielded, max.</li> </ul>                                                                                                  | 1 000 m<br>600 m                                                       |
| <b>Encoder</b>                                                                                                                                                                                  |                                                                        |
| <b>Connectable encoders</b>                                                                                                                                                                     |                                                                        |
| <ul style="list-style-type: none"> <li>• 2-wire sensor</li> <li>— permissible quiescent current (2-wire sensor), max.</li> </ul>                                                                | Yes<br>1.5 mA                                                          |
| <b>Interrupts/diagnostics/status information</b>                                                                                                                                                |                                                                        |
| Diagnostic functions                                                                                                                                                                            | No                                                                     |
| <b>Diagnostics indication LED</b>                                                                                                                                                               |                                                                        |
| <ul style="list-style-type: none"> <li>• Group error SF (red)</li> <li>• Status indicator digital input (green)</li> </ul>                                                                      | No<br>Yes; per channel                                                 |
| <b>Parameter</b>                                                                                                                                                                                |                                                                        |
| Remark                                                                                                                                                                                          | 1 byte                                                                 |
| <b>Potential separation</b>                                                                                                                                                                     |                                                                        |
| <b>Potential separation digital inputs</b>                                                                                                                                                      |                                                                        |
| <ul style="list-style-type: none"> <li>• between the channels</li> <li>• between the channels and backplane bus</li> </ul>                                                                      | No<br>Yes                                                              |
| <b>Permissible potential difference</b>                                                                                                                                                         |                                                                        |

|                            |                 |
|----------------------------|-----------------|
| between different circuits | 75 V DC/60 V AC |
| Isolation                  |                 |
| Isolation tested with      | 500 V DC        |
| Dimensions                 |                 |
| Width                      | 15 mm           |
| Height                     | 81 mm           |
| Depth                      | 52 mm           |
| Weights                    |                 |
| Weight, approx.            | 35 g            |
| <b>last modified:</b>      | 11/17/2017      |