



SIMATIC DP, 5 electronic modules for ET 200S, 4 DO standard 24 V DC/0.5 A, 15 mm width, 5 units per packing unit

| Supply voltage                                                                                                                                                                                                              |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Reverse voltage protection                                                                                                                                                                                                  | Yes; when using the same load voltage as on the power module                                              |
| Load voltage L+                                                                                                                                                                                                             |                                                                                                           |
| <ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>Reverse polarity protection</li> </ul>                                                                                                                     | 24 V; From power module<br>Yes; polarity reversal can lead to the digital outputs being connected through |
| Input current                                                                                                                                                                                                               |                                                                                                           |
| from load voltage L+ (without load), max.                                                                                                                                                                                   | 10 mA; Per channel                                                                                        |
| from backplane bus 3.3 V DC, max.                                                                                                                                                                                           | 10 mA                                                                                                     |
| Power loss                                                                                                                                                                                                                  |                                                                                                           |
| Power loss, typ.                                                                                                                                                                                                            | 0.8 W                                                                                                     |
| Address area                                                                                                                                                                                                                |                                                                                                           |
| Address space per module                                                                                                                                                                                                    |                                                                                                           |
| <ul style="list-style-type: none"> <li>Address space per module, max.</li> <li>with packing</li> </ul>                                                                                                                      | 1 byte<br>4 bit                                                                                           |
| Digital outputs                                                                                                                                                                                                             |                                                                                                           |
| Type of digital output                                                                                                                                                                                                      | Source output (PNP, current-sourcing)                                                                     |
| Number of digital outputs                                                                                                                                                                                                   | 4                                                                                                         |
| Short-circuit protection                                                                                                                                                                                                    | Yes                                                                                                       |
| <ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>                                                                                                                                                  | 1 to 1.5 A                                                                                                |
| Limitation of inductive shutdown voltage to                                                                                                                                                                                 | L+ (-55 to -60 V)                                                                                         |
| Controlling a digital input                                                                                                                                                                                                 | Yes                                                                                                       |
| Switching capacity of the outputs                                                                                                                                                                                           |                                                                                                           |
| <ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>                                                                                                                                                        | 5 W                                                                                                       |
| Load resistance range                                                                                                                                                                                                       |                                                                                                           |
| <ul style="list-style-type: none"> <li>lower limit</li> <li>upper limit</li> </ul>                                                                                                                                          | 48 Ω<br>3 400 Ω                                                                                           |
| Output voltage                                                                                                                                                                                                              |                                                                                                           |
| <ul style="list-style-type: none"> <li>for signal "1", min.</li> </ul>                                                                                                                                                      | L+ (-1 V)                                                                                                 |
| Output current                                                                                                                                                                                                              |                                                                                                           |
| <ul style="list-style-type: none"> <li>for signal "1" rated value</li> <li>for signal "1" permissible range, min.</li> <li>for signal "1" permissible range, max.</li> <li>for signal "0" residual current, max.</li> </ul> | 0.5 A<br>7 mA<br>600 mA<br>0.3 mA                                                                         |
| Output delay with resistive load                                                                                                                                                                                            |                                                                                                           |
| <ul style="list-style-type: none"> <li>"0" to "1", max.</li> <li>"1" to "0", max.</li> </ul>                                                                                                                                | 50 μs<br>120 μs                                                                                           |
| Parallel switching of two outputs                                                                                                                                                                                           |                                                                                                           |
| <ul style="list-style-type: none"> <li>for uprating</li> <li>for redundant control of a load</li> </ul>                                                                                                                     | No<br>Yes; per module                                                                                     |
| Switching frequency                                                                                                                                                                                                         |                                                                                                           |

|                                                                                                                                                  |                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• with resistive load, max.</li> <li>• with inductive load, max.</li> <li>• on lamp load, max.</li> </ul> | 800 Hz<br>2 Hz<br>10 Hz                                                                      |
| Total current of the outputs                                                                                                                     |                                                                                              |
| <ul style="list-style-type: none"> <li>• Current per module, max.</li> </ul>                                                                     | 2 A                                                                                          |
| Cable length                                                                                                                                     |                                                                                              |
| <ul style="list-style-type: none"> <li>• shielded, max.</li> <li>• unshielded, max.</li> </ul>                                                   | 1 000 m<br>600 m                                                                             |
| <b>Interrupts/diagnostics/status information</b>                                                                                                 |                                                                                              |
| Diagnostics function                                                                                                                             | No                                                                                           |
| Diagnostics indication LED                                                                                                                       |                                                                                              |
| <ul style="list-style-type: none"> <li>• Status indicator digital output (green)</li> </ul>                                                      | Yes                                                                                          |
| <b>Parameter</b>                                                                                                                                 |                                                                                              |
| Remark                                                                                                                                           | 1 byte                                                                                       |
| <b>Potential separation</b>                                                                                                                      |                                                                                              |
| Potential separation digital outputs                                                                                                             |                                                                                              |
| <ul style="list-style-type: none"> <li>• between the channels</li> <li>• between the channels and backplane bus</li> </ul>                       | No<br>Yes                                                                                    |
| <b>Isolation</b>                                                                                                                                 |                                                                                              |
| Isolation tested with                                                                                                                            | 500 V DC                                                                                     |
| <b>Dimensions</b>                                                                                                                                |                                                                                              |
| Width                                                                                                                                            | 15 mm                                                                                        |
| Height                                                                                                                                           | 81 mm                                                                                        |
| Depth                                                                                                                                            | 52 mm                                                                                        |
| <b>Weights</b>                                                                                                                                   |                                                                                              |
| Weight, approx.                                                                                                                                  | 40 g                                                                                         |
| <b>last modified:</b>                                                                                                                            | 2/9/2021  |