

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO  
STANDARD DC 24V/0.5A, 15 MM WIDTH, 5 PIECES PER  
PACKAGING UNIT

### Supply voltage

|   |  |
|---|--|
| Reverse voltage protection  | Yes; when using the same load voltage as on the power module                   |
| <b>Load voltage L+</b>  |  |
| <ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>            | 24 V; From power module  |
| <ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul> | Yes; polarity reversal can lead to the digital outputs being connected through |

### Input current

|   |                   |
|---|-------------------|
| from load voltage L+ (without load), max. | 5 mA; Per channel |
| from backplane bus 3.3 V DC, max.         | 10 mA             |

### Power loss

|                  |       |
|------------------|-------|
| Power loss, typ. | 0.8 W |
|------------------|-------|

### Address area

|   |        |
|---|--------|
| <b>Address space per module</b>                                   |        |
| <ul style="list-style-type: none"> <li>with packing</li> </ul>    | 4 bit  |
| <ul style="list-style-type: none"> <li>without packing</li> </ul> | 1 byte |

### Digital outputs

|  |                     |
|--|---------------------|
| Number of digital outputs  | 4                   |
| <b>Short-circuit protection</b>  |                     |
| <ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>               | 0.7 to 1.5 A        |
| Limitation of inductive shutdown voltage to  | -55 to -60 V, L+( ) |
| Controlling a digital input  | Yes                 |
| <b>Switching capacity of the outputs</b>   |                     |
| <ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>                     | 5 W                 |
| <b>Load resistance range</b>   |                     |
| <ul style="list-style-type: none"> <li>lower limit</li> </ul>                            | 48 Ω                |
| <ul style="list-style-type: none"> <li>upper limit</li> </ul>                            | 3 400 Ω             |
| <b>Output voltage</b>  |                     |
| <ul style="list-style-type: none"> <li>for signal "1", min.</li> </ul>                   | L+ (-1 V)           |
| <b>Output current</b>  |                     |
| <ul style="list-style-type: none"> <li>for signal "1" rated value</li> </ul>             | 0.5 A               |
| <ul style="list-style-type: none"> <li>for signal "1" permissible range, min.</li> </ul> | 7 mA                |
| <ul style="list-style-type: none"> <li>for signal "1" permissible range, max.</li> </ul> | 600 mA              |
| <ul style="list-style-type: none"> <li>for signal "0" residual current, max.</li> </ul>  | 0.3 mA              |

|   |                 |
|---|-----------------|
| <b>Output delay with resistive load</b>                         |                 |
| • "0" to "1", max.  | 100 µs          |
| • "1" to "0", max.  | 300 µs          |
| <b>Parallel switching of two outputs</b>                        |                 |
| • for uprating  | No              |
| • for redundant control of a load                               | Yes; per module |
| <b>Switching frequency</b>                                      |                 |
| • with resistive load, max.                                     | 100 Hz          |
| • with inductive load, max.                                     | 2 Hz            |
| • on lamp load, max.  | 10 Hz           |
| <b>Total current of the outputs</b>                             |                 |
| • Current per module, max.                                      | 2 A             |
| <b>Cable length</b>   |                 |
| • shielded, max.  | 1 000 m         |
| • unshielded, max.  | 600 m           |
| <b>Isochronous mode</b>   |                 |
| Isochronous operation (application synchronized up to terminal) | Yes             |
| <b>Interrupts/diagnostics/status information</b>                |                 |
| Diagnostic functions  | No              |
| <b>Diagnostics indication LED</b>                               |                 |
| • Status indicator digital output (green)                       | Yes             |
| <b>Parameter</b>  |                 |
| Remark  | 1 byte          |
| <b>Potential separation</b>                                     |                 |
| <b>Potential separation digital outputs</b>                     |                 |
| • between the channels  | No              |
| • between the channels and backplane bus                        | 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>   | 04/23/2018      |