

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO  
STANDARD DC 24V/2A, 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  |

### 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. | 1.6 W |
|------------------|-------|

### Address area

|   |        |
|---|--------|
| <b>Address space per module</b>                                   |        |
| <ul style="list-style-type: none"> <li>with packing</li> </ul>    | 2 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>              | 2.8 to 7.2 A   |
| Limitation of inductive shutdown voltage to   | -55 to -60 V   |
| 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>                    | 10 W           |
| <b>Load resistance range</b>  |                |
| <ul style="list-style-type: none"> <li>lower limit</li> </ul>                           | 12 $\Omega$    |
| <ul style="list-style-type: none"> <li>upper limit</li> </ul>                           | 3 400 $\Omega$ |
| <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>            | 2 A            |
| <ul style="list-style-type: none"> <li>for signal "0" residual current, max.</li> </ul> | 0.5 mA         |
| <b>Output delay with resistive load</b>   |                |
| <ul style="list-style-type: none"> <li>"0" to "1", max.</li> </ul>                      | 200 $\mu$ s    |
| <ul style="list-style-type: none"> <li>"1" to "0", max.</li> </ul>                      | 1.3 ms         |

| Parallel switching of two outputs                               |                 |
|---|-----------------|
| • for uprating  | No              |
| • for redundant control of a load                               | Yes; per module |
| Switching frequency   |                 |
| • with resistive load, max.                                     | 100 Hz          |
| • with inductive load, max.                                     | 2 Hz; 0,5 H     |
| • on lamp load, max.  | 10 Hz           |
| Cable length  |                 |
| • shielded, max.  | 1 000 m         |
| • unshielded, max.  | 600 m           |
| Isochronous mode  |                 |
| Isochronous operation (application synchronized up to terminal) | No              |
| Interrupts/diagnostics/status information                       |                 |
| Diagnostic functions  | No              |
| Diagnostic messages   |                 |
| • Short-circuit   | Yes             |
| Diagnostics indication LED                                      |                 |
| • Status indicator digital output (green)                       | Yes             |
| Parameter   |                 |
| Remark  | 1 byte          |
| Potential separation  |                 |
| Potential separation digital outputs                            |                 |
| • between the channels  | No              |
| • between the channels and backplane bus                        | Yes             |
| Permissible potential difference                                |                 |
| 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.   | 40 g            |
| <b>last modified:</b>   | 08/12/2017      |