

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                   |
| Load voltage L+   |  |
| <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.                                     | 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>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  |

|   |                   |
|---|-------------------|
| Short-circuit protection  | Yes               |
| • Response threshold, typ.                                      | 1 to 1.5 A        |
| Limitation of inductive shutdown voltage to                     | (L+) -55 to -60 V |
| Controlling a digital input                                     | Yes               |
| <b>Switching capacity of the outputs</b>                        |                   |
| • on lamp load, max.  | 5 W               |
| <b>Load resistance range</b>                                    |                   |
| • lower limit   | 48 $\Omega$       |
| • upper limit   | 3 400 $\Omega$    |
| <b>Output voltage</b>   |                   |
| • for signal "1", min.  | L+ (-1 V)         |
| <b>Output current</b>   |                   |
| • for signal "1" rated value                                    | 0.5 A             |
| • for signal "1" permissible range, min.                        | 7 mA              |
| • for signal "1" permissible range, max.                        | 600 mA            |
| • for signal "0" residual current, max.                         | 0.3 mA            |
| <b>Output delay with resistive load</b>                         |                   |
| • "0" to "1", max.  | 50 $\mu$ s        |
| • "1" to "0", max.  | 120 $\mu$ s       |
| <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.                                     | 800 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>                                     |                   |

#### Potential separation digital outputs

- |  |     |
|--|-----|
| • between the channels                   | No  |
| • between the channels and backplane bus | Yes |

#### Isolation

|                       |          |
|-----------------------|----------|
| Isolation tested with | 500 V DC |
|-----------------------|----------|

#### Dimensions

|        |       |
|--------|-------|
| Width  | 15 mm |
| Height | 81 mm |
| Depth  | 52 mm |

#### Weights

|                 |      |
|-----------------|------|
| Weight, approx. | 40 g |
|-----------------|------|

**last modified:** 03/07/2017