



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 |
| Load voltage L+                           |                                                               |
| Rated value (DC)                          | 24 V ; From power module                                      |
| Reverse polarity protection               | Yes                                                           |
| 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.                          | 1.6 W                                                         |
| Address area                              |                                                               |
| Address space per module                  |                                                               |
| with packing                              | 4 bit                                                         |
| without packing                           | 1 byte                                                        |
| Digital outputs                           |                                                               |
| Number of digital outputs                 | 4                                                             |
| Short-circuit protection                  | Yes                                                           |
| Response threshold, typ.                  | 2.8 to 7.2 A                                                  |

|                                                            |                               |
|------------------------------------------------------------|-------------------------------|
| Limitation of inductive shutdown voltage to                | Typ. L+ (-55 to -60 V)        |
| Controlling a digital input                                | Yes                           |
| Switching capacity of the outputs                          |                               |
| Lamp load, max.                                            | 10 W                          |
| Load resistance range                                      |                               |
| lower limit                                                | 12 $\Omega$                   |
| upper limit                                                | 3400 $\Omega$                 |
| Output voltage                                             |                               |
| for signal "1", min.                                       | L+ (-1.0 V)                   |
| Output current                                             |                               |
| for signal "1" rated value                                 | 2 A                           |
| for signal "1" permissible range for 0 to 60 °C, min.      | 7 mA                          |
| for signal "1" permissible range for 0 to 60 °C, max.      | 2.4 A                         |
| for signal "0" residual current, max.                      | 0.5 mA                        |
| Output delay with resistive load                           |                               |
| "0" to "1", max.                                           | 50 $\mu$ s ; Typ. 45 $\mu$ s  |
| "1" to "0", max.                                           | 120 $\mu$ s ; Typ. 90 $\mu$ s |
| Parallel switching of 2 outputs                            |                               |
| for uprating                                               | No                            |
| for redundant control of a load                            | Yes ; per module              |
| Switching frequency                                        |                               |
| with resistive load, max.                                  | 1000 Hz                       |
| with inductive load, max.                                  | 2 Hz ; At 0.5 H               |
| on lamp load, max.                                         | 10 Hz                         |
| Total current of the outputs (per group)                   |                               |
| all mounting positions                                     |                               |
| up to 60 °C, max.                                          | 4 A                           |
| vertical installation                                      |                               |
| up to 40 °C, max.                                          | 4 A ; At 55 °C and 24 V DC    |
| Cable length                                               |                               |
| Cable length, shielded, max.                               | 1000 m                        |
| Cable length unshielded, max.                              | 600 m                         |
| Isochronous mode                                           |                               |
| Isochronous mode (application synchronized up to terminal) | Yes                           |
| Interrupts/diagnostics/status information                  |                               |
| Diagnostic messages                                        |                               |
| Diagnostic functions                                       | No                            |
| Diagnostics indication LED                                 |                               |

|                                            |              |
|--------------------------------------------|--------------|
| Status indicator digital output (green)    | Yes          |
| Parameter                                  |              |
| Remark                                     | 1 byte       |
| Galvanic isolation                         |              |
| Galvanic isolation digital outputs         |              |
| between the channels                       | No           |
| between the channels and the 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         |
| Status                                     | Jul 14, 2014 |