

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO  
STANDARD DC 24V/2A, 15 MM WIDTH 5 PIECES PER  
PACKAGING UNIT



Figure similar

| 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                               |                              |
| • on lamp load, max.                                            | 10 W                         |
| Load resistance range                                           |                              |
| • lower limit                                                   | 12 $\Omega$                  |
| • upper limit                                                   | 3 400 $\Omega$               |
| Output voltage                                                  |                              |
| • for signal "1", min.                                          | L+ (-1.0 V)                  |
| Output current                                                  |                              |
| • for signal "1" rated value                                    | 2 A                          |
| • for signal "1" permissible range, min.                        | 7 mA                         |
| • for signal "1" permissible range, max.                        | 2.4 A                        |
| • for signal "0" residual current, max.                         | 0.1 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 two outputs                               |                              |
| • for uprating                                                  | No                           |
| • for redundant control of a load                               | Yes; per module              |
| Switching frequency                                             |                              |
| • with resistive load, max.                                     | 1 000 Hz                     |
| • with inductive load, max.                                     | 2 Hz; At 0.5 H               |
| • on lamp load, max.                                            | 10 Hz                        |
| Total current of the outputs                                    |                              |
| • Current per module, max.                                      | 4 A                          |
| Cable length                                                    |                              |
| • shielded, max.                                                | 1 000 m                      |
| • unshielded, max.                                              | 600 m                        |
| Isochronous mode                                                |                              |
| Isochronous operation (application synchronized up to terminal) | Yes                          |
| Interrupts/diagnostics/status information                       |                              |
| Diagnostic functions                                            | No                           |
| 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        |
| 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>                    | 09/15/2017 |