

SIMATIC DP, ELECTRONIC MODULES FOR ET200PRO 8 DO DC 24V, 0.5A MODULE DIAGNOSTICS; INCLUSIVE BUS MODULE, CONNECTING MODULE IO 6ES7194-4..00-0AA0 MUST BE ORDERED SEPERATELY



| Supply voltage                             |                                           |
|--------------------------------------------|-------------------------------------------|
| Load voltage 2L+                           |                                           |
| • Rated value (DC)                         | 24 V                                      |
| • Short-circuit protection                 | Yes; per channel, electronic              |
| • Reverse polarity protection              | Yes; against destruction; load increasing |
| Input current                              |                                           |
| from load voltage 2L+ (without load), max. | 30 mA                                     |
| from backplane bus 3.3 V DC, max.          | 30 mA                                     |
| Power loss                                 |                                           |
| Power loss, typ.                           | 2 W                                       |
| Address area                               |                                           |
| Address space per module                   |                                           |
| • with packing                             | 8 bit                                     |
| • without packing                          | 1 byte                                    |
| Digital outputs                            |                                           |
| Number of digital outputs                  | 8                                         |
| Short-circuit protection                   | Yes                                       |

|                                                        |                                                                                     |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|
| • Response threshold, typ.                             | 0,7                                                                                 |
| Limitation of inductive shutdown voltage to            | 2L+ (-47 V)                                                                         |
| Controlling a digital input                            | Yes; Isolation between 1L+ and 2L+ is no longer provided, as 1M and 2M are jumpered |
| <b>Switching capacity of the outputs</b>               |                                                                                     |
| • on lamp load, max.                                   | 5 W                                                                                 |
| <b>Load resistance range</b>                           |                                                                                     |
| • lower limit                                          | 48 $\Omega$                                                                         |
| • upper limit                                          | 4 k $\Omega$                                                                        |
| <b>Output voltage</b>                                  |                                                                                     |
| • for signal "1", min.                                 | 2L+ (-0,8 V)                                                                        |
| <b>Output current</b>                                  |                                                                                     |
| • for signal "1" rated value                           | 0.5 A                                                                               |
| • for signal "0" residual current, max.                | 0.5 mA                                                                              |
| <b>Parallel switching of two outputs</b>               |                                                                                     |
| • for uprating                                         | No                                                                                  |
| • for redundant control of a load                      | Yes                                                                                 |
| <b>Switching frequency</b>                             |                                                                                     |
| • with resistive load, max.                            | 100 Hz                                                                              |
| • with inductive load, max.                            | 0.5 Hz                                                                              |
| • on lamp load, max.                                   | 1 Hz                                                                                |
| <b>Total current of the outputs (per group)</b>        |                                                                                     |
| all mounting positions                                 |                                                                                     |
| — up to 55 °C, max.                                    | 4 A                                                                                 |
| <b>Cable length</b>                                    |                                                                                     |
| • shielded, max.                                       | 30 m                                                                                |
| • unshielded, max.                                     | 30 m                                                                                |
| <b>Interrupts/diagnostics/status information</b>       |                                                                                     |
| Diagnostic functions                                   | Yes                                                                                 |
| <b>Alarms</b>                                          |                                                                                     |
| • Diagnostic alarm                                     | Yes                                                                                 |
| <b>Diagnostic messages</b>                             |                                                                                     |
| • Diagnostic information readable                      | Yes                                                                                 |
| • Short-circuit                                        | Yes; Short-circuit of outputs to ground; module by module                           |
| <b>Diagnostics indication LED</b>                      |                                                                                     |
| • Group error SF (red)                                 | Yes                                                                                 |
| • Status indicator digital output (green)              | Yes                                                                                 |
| <b>Potential separation</b>                            |                                                                                     |
| between backplane bus and all other circuit components | Yes                                                                                 |
| <b>Potential separation digital outputs</b>            |                                                                                     |
| • between the channels                                 | No                                                                                  |

- between the channels and backplane bus

Yes

## Isolation

Isolation tested with

707 V DC (type test)

## Standards, approvals, certificates

Suitable for safety-oriented group deactivation

Yes

Highest safety class achievable in safety mode

- Performance level according to ISO 13849-1
- SIL acc. to IEC 61508

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## Dimensions

Width

45 mm

Height

130 mm

Depth

35 mm

## Weights

Weight, approx.

140 g

**last modified:**

10/28/2016