



SIMATIC S7-300 DIGITAL OUTPUT SM322, OPTICALLY ISOLATED IN GROUPS OF 16, 64 DO, DC 24V, 0.3A, (SOURCING) TOTAL CURRENT 2A/GROUP 8A/MODULE TERMINAL BLOCKS 6ES7392-1.N00-0AA0 AND CABLES 6ES7392-4...0-0AA0 NECESSARY

### Supply voltage

#### Load voltage L+

|                                       |        |
|---------------------------------------|--------|
| • Rated value (DC)                    | 24 V   |
| • permissible range, lower limit (DC) | 20.4 V |
| • permissible range, upper limit (DC) | 28.8 V |

### Input current

|                                           |        |
|-------------------------------------------|--------|
| from load voltage L+ (without load), max. | 75 mA  |
| from backplane bus 5 V DC, max.           | 100 mA |

### Power loss

|                  |     |
|------------------|-----|
| Power loss, typ. | 6 W |
|------------------|-----|

### Digital outputs

|                                             |            |
|---------------------------------------------|------------|
| Number of digital outputs                   | 64         |
| Limitation of inductive shutdown voltage to | L+ (-53 V) |

#### Switching capacity of the outputs

|                      |     |
|----------------------|-----|
| • on lamp load, max. | 5 W |
|----------------------|-----|

#### Load resistance range

|               |             |
|---------------|-------------|
| • lower limit | 80 $\Omega$ |
|---------------|-------------|

|                                                  |                  |
|--------------------------------------------------|------------------|
| • upper limit                                    | 10 kΩ            |
| <b>Output voltage</b>                            |                  |
| • for signal "1", min.                           | L+ (-0.5 V)      |
| <b>Output current</b>                            |                  |
| • for signal "1" rated value                     | 0.3 A            |
| • for signal "1" permissible range, min.         | 2.4 mA           |
| • for signal "1" permissible range, max.         | 0.36 A           |
| • for signal "0" residual current, max.          | 0.1 mA           |
| <b>Switching frequency</b>                       |                  |
| • with resistive load, max.                      | 100 Hz           |
| • with inductive load, max.                      | 0.5 Hz           |
| • on lamp load, max.                             | 10 Hz            |
| <b>Total current of the outputs (per group)</b>  |                  |
| <b>horizontal installation</b>                   |                  |
| — up to 40 °C, max.                              | 1.6 A            |
| — up to 60 °C, max.                              | 1.2 A            |
| <b>vertical installation</b>                     |                  |
| — up to 40 °C, max.                              | 1.6 A            |
| <b>Total current of the outputs (per module)</b> |                  |
| <b>horizontal installation</b>                   |                  |
| — up to 60 °C, max.                              | 4.8 A            |
| <b>all other mounting positions</b>              |                  |
| — up to 40 °C, max.                              | 6.4 A            |
| <b>Cable length</b>                              |                  |
| • shielded, max.                                 | 1 000 m          |
| • unshielded, max.                               | 600 m            |
| <b>Interrupts/diagnostics/status information</b> |                  |
| Diagnostic functions                             | No               |
| <b>Alarms</b>                                    |                  |
| • Diagnostic alarm                               | No               |
| <b>Diagnostic messages</b>                       |                  |
| • Wire-break                                     | No               |
| • Short-circuit                                  | No               |
| • Fuse blown                                     | No               |
| • missing load voltage                           | No               |
| <b>Potential separation</b>                      |                  |
| <b>Potential separation digital outputs</b>      |                  |
| • between the channels                           | No               |
| • between the channels, in groups of             | 16               |
| • between the channels and backplane bus         | Yes; Optocoupler |

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Isolation                |                                                               |
| Isolation tested with    | 500 V DC                                                      |
| Connection method        |                                                               |
| required front connector | Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 |
| Dimensions               |                                                               |
| Width                    | 40 mm                                                         |
| Height                   | 125 mm                                                        |
| Depth                    | 112 mm                                                        |
| Weights                  |                                                               |
| Weight, approx.          | 230 g                                                         |
| <b>last modified:</b>    | 08/29/2017                                                    |