

SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 120 V/230 V AC, 1 A, double-width, 2x 20-pole



Figure similar

| Supply voltage                            |                     |
|-------------------------------------------|---------------------|
| Load voltage L1                           |                     |
| • Rated value (AC)                        | 120 V; 120/230 V AC |
| • permissible range, lower limit (AC)     | 79 V                |
| • permissible range, upper limit (AC)     | 264 V               |
| Input current                             |                     |
| from load voltage L1 (without load), max. | 10 mA               |
| from backplane bus 5 V DC, max.           | 190 mA              |
| Power loss                                |                     |
| Power loss, typ.                          | 25 W                |
| Digital outputs                           |                     |
| Number of digital outputs                 | 32                  |
| Switching capacity of the outputs         |                     |
| • on lamp load, max.                      | 50 W                |
| Output voltage                            |                     |
| • for signal "1", min.                    | L1 (-0.8 V)         |

|                                                  |                                         |
|--------------------------------------------------|-----------------------------------------|
| Output current                                   |                                         |
| • for signal "1" rated value                     | 1 A                                     |
| • for signal "1" minimum load current            | 10 mA                                   |
| • for signal "1" permissible surge current, max. | 10 A; per group (for 2 AC cycles)       |
| • for signal "0" residual current, max.          | 2 mA                                    |
| Switching frequency                              |                                         |
| • with resistive load, max.                      | 10 Hz                                   |
| • with inductive load, max.                      | 0.5 Hz                                  |
| • on lamp load, max.                             | 1 Hz                                    |
| Total current of the outputs (per group)         |                                         |
| horizontal installation                          |                                         |
| — up to 40 °C, max.                              | 4 A                                     |
| — up to 60 °C, max.                              | 3 A                                     |
| vertical installation                            |                                         |
| — up to 40 °C, max.                              | 4 A                                     |
| Cable length                                     |                                         |
| • shielded, max.                                 | 1 000 m                                 |
| • unshielded, max.                               | 600 m                                   |
| Interrupts/diagnostics/status information        |                                         |
| Diagnostic functions                             | Yes; Fuse blown or load voltage missing |
| Alarms                                           |                                         |
| • Diagnostic alarm                               | No                                      |
| Diagnostics indication LED                       |                                         |
| • Group error SF (red)                           | Yes                                     |
| • Status indicator digital output (green)        | Yes; per channel                        |
| Potential separation                             |                                         |
| Potential separation digital outputs             |                                         |
| • between the channels                           | Yes                                     |
| • between the channels, in groups of             | 8                                       |
| • between the channels and backplane bus         | Yes; Optocoupler                        |
| Isolation                                        |                                         |
| Isolation tested with                            | 4 000 V DC                              |
| Connection method                                |                                         |
| required front connector                         | 20-pin                                  |
| Dimensions                                       |                                         |
| Width                                            | 80 mm                                   |
| Height                                           | 125 mm                                  |
| Depth                                            | 117 mm                                  |
| Weights                                          |                                         |
| Weight, approx.                                  | 500 g                                   |

last modified:

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