



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO (relay), 1x 20-pole, 24 V DC, 2 A or 230 V AC, 2A

Figure similar

|   |  |
|---|--|
| <b>Supply voltage</b>                                       |  |
| Load voltage L+   |  |
| • Rated value (DC)  | 24 V   |
| <b>Input current</b>  |  |
| from supply voltage L+, max.                                | 160 mA   |
| from backplane bus 5 V DC, max.                             | 40 mA  |
| <b>Power loss</b>   |  |
| Power loss, typ.  | 3.2 W  |
| <b>Digital outputs</b>                                      |  |
| Number of digital outputs                                   | 8; Relays  |
| Short-circuit protection                                    | No   |
| Controlling a digital input                                 | Yes  |
| <b>Switching capacity of the outputs</b>                    |  |
| • on lamp load, max.  | 50 W   |
| • Low energy/fluorescent lamps with electronic control gear | 10x 58 W   |
| • Fluorescent tubes, conventionally compensated             | 1x 58 W  |
| • Fluorescent tubes, uncompensated                          | 10x 58 W   |
| <b>Output current</b>                                       |  |
| • for signal "1" rated value                                | 2 A  |
| • for signal "1" minimum load current                       | 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.                                 | 2 Hz   |
| • with inductive load, max.                                 | 0.5 Hz   |
| • With inductive load (to IEC 60947-5-1, DC13/AC15), max.   | 0.5 Hz   |
| • on lamp load, max.  | 2 Hz   |
| • mechanical, max.  | 10 Hz  |
| <b>Relay outputs</b>  |  |
| • Rated supply voltage of relay coil L+ (DC)                | 24 V; 110 mA   |
| • Contact connection (internal)                             | Yes; SIOV-CU4032 K275G   |
| • Number of operating cycles, max.                          | 300 000; 230 V AC: 100 000; 120 V AC: 200 000; 24 V DC: 300 000 (at 2 A) |
| <b>Switching capacity of contacts</b>                       |  |
| — with inductive load, max.                                 | 2 A; 2 A (230 V AC), 2 A (24 V DC)                                       |
| — with resistive load, max.                                 | 2 A  |
| — Thermal continuous current, max.                          | 3 A  |
| <b>Cable length</b>   |  |
| • shielded, max.  | 1 000 m  |

|  |                  |
|--|------------------|
| • unshielded, max.                               | 600 m            |
| <b>Interrupts/diagnostics/status information</b> |                  |
| Alarms   | No               |
| Diagnostics function                             | No               |
| <b>Alarms</b>                                    |                  |
| • Diagnostic alarm                               | No               |
| <b>Diagnoses</b>                                 |                  |
| • Wire-break                                     | No               |
| • Short-circuit                                  | No               |
| • Fuse blown                                     | No               |
| • missing load voltage                           | No               |
| <b>Diagnostics indication LED</b>                |                  |
| • Rated load voltage PWR (green)                 | No               |
| • Fuse OK FSG (green)                            | No               |
| • Status indicator digital output (green)        | Yes              |
| <b>Potential separation</b>                      |                  |
| <b>Potential separation digital outputs</b>      |                  |
| • between the channels                           | Yes              |
| • between the channels, in groups of             | 2                |
| • between the channels and backplane bus         | Yes; Optocoupler |
| <b>Isolation</b>                                 |                  |
| Isolation tested with                            | 1 500 V AC       |
| <b>connection method</b>                         |                  |
| required front connector                         | 20-pin           |
| <b>Dimensions</b>                                |                  |
| Width  | 40 mm            |
| Height   | 125 mm           |
| Depth  | 120 mm           |
| <b>Weights</b>                                   |                  |
| Weight, approx.                                  | 190 g            |
| <b>Classifications</b>                           |                  |

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-22-04    |
| eClass | 12      | 27-24-22-04    |
| eClass | 9.1     | 27-24-22-04    |
| eClass | 9       | 27-24-22-04    |
| eClass | 8       | 27-24-22-04    |
| eClass | 7.1     | 27-24-22-04    |
| eClass | 6       | 27-24-22-04    |
| ETIM   | 9       | EC001419       |
| ETIM   | 8       | EC001419       |
| ETIM   | 7       | EC001419       |
| IDEA   | 4       | 3566           |
| UNSPSC | 15      | 32-15-17-05    |

|                                 |       |             |
|---------------------------------|-------|-------------|
| <b>Approvals / Certificates</b> |       |             |
| General Product Approval        | other | Environment |



[Confirmation](#)

[Environmental Confirmations](#)

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