

SIMATIC S7-200 SMART, Digital output SM DT08, 8 DO, 24 V DC, Transistor 0.75A

| General information                                     |                                   |
|---|-----------------------------------|
| Product type designation                                | SM DT08, DQ 8x24 V DC/0.75 A      |
| Supply voltage  |                                   |
| Rated value (DC)  | 24 V                              |
| permissible range, lower limit (DC)                     | 20.4 V                            |
| permissible range, upper limit (DC)                     | 28.8 V                            |
| Input current   |                                   |
| from backplane bus 5 V DC, typ.                         | 95 mA; For 5 V DC from CPU module |
| Digital inputs  |                                   |
| Number of digital inputs                                | 0                                 |
| Digital outputs   |                                   |
| Number of digital outputs                               | 8                                 |
| • in groups of  | 2                                 |
| Current-sinking   | No                                |
| Current-sourcing  | Yes                               |
| Short-circuit protection                                | No                                |
| Controlling a digital input                             | Yes                               |
| Switching capacity of the outputs                       |                                   |
| • with resistive load, max.                             | 0.75 A                            |
| • on lamp load, max.                                    | 5 W                               |
| Output voltage  |                                   |
| • Rated value (DC)                                      | 24 V                              |
| • for signal "0", max.                                  | 0.1 V                             |
| • for signal "1", min.                                  | 20 V DC                           |
| Output current  |                                   |
| • for signal "1" rated value                            | 0.75 A                            |
| • for signal "1" permissible range, max.                | 0.75 A                            |
| • for signal "1" permissible range for 0 to 40 °C, max. | 750 mA                            |
| • for signal "0" residual current, max.                 | 10 µA                             |
| Output delay with resistive load                        |                                   |
| • "0" to "1", max.                                      | 50 µs                             |
| • "1" to "0", max.                                      | 200 µs                            |
| Parallel switching of two outputs                       |                                   |
| • for logic links                                       | Yes                               |
| • for uprating  | Yes                               |
| • for redundant control of a load                       | Yes                               |
| Total current of the outputs (per group)                |                                   |
| all mounting positions                                  |                                   |
| — up to 40 °C, max.                                     | 3 A                               |
| horizontal installation                                 |                                   |
| — up to 50 °C, max.                                     | 3 A                               |
| vertical installation                                   |                                   |
| — up to 40 °C, max.                                     | 3 A                               |
| all other mounting positions                            |                                   |
| — up to 40 °C, max.                                     | 3 A                               |
| Cable length  |                                   |
| • shielded, max.  | 500 m                             |
| • unshielded, max.                                      | 150 m                             |
| Interrupts/diagnostics/status information               |                                   |
| Diagnostics indication LED                              |                                   |
| • for status of the outputs                             | Yes                               |

| Potential separation                 |                      |
|--------------------------------------|----------------------|
| Potential separation digital outputs |                      |
| • between the channels               | Yes; Optocoupler     |
| Isolation                            |                      |
| Isolation tested with                | 500V AC for 1 minute |
| Degree and class of protection       |                      |
| IP degree of protection              | IP20                 |
| Standards, approvals, certificates   |                      |
| CE mark                              | Yes                  |
| Dimensions                           |                      |
| Width                                | 45 mm                |
| Height                               | 100 mm               |
| Depth                                | 81 mm                |
| Weights                              |                      |
| Weight, approx.                      | 147 g                |

**last modified:** 3/12/2024 