

SIMATIC S7-200, DIGITAL OUTPUT EM 222, FOR S7-22X CPU ONLY, 8DO, (RELAY OUTPUTS) 2A



Figure similar

| Supply voltage                             |                                 |
|--|---------------------------------|
| Load voltage L+                            |                                 |
| • Rated value (DC)                         | 24 V                            |
| • permissible range, lower limit (DC)      | 5 V                             |
| • permissible range, upper limit (DC)      | 30 V                            |
| Load voltage L1                            |                                 |
| • Rated value (AC)                         | 24 V; 24 V AC to 230 V AC       |
| • permissible range, lower limit (AC)      | 5 V                             |
| • permissible range, upper limit (AC)      | 250 V                           |
| • permissible frequency range, lower limit | 47 Hz                           |
| • permissible frequency range, upper limit | 63 Hz                           |
| Input current                              |                                 |
| from backplane bus 5 V DC, max.            | 40 mA                           |
| Digital outputs                            |                                 |
| • from load voltage L+, max.               | 72 mA; 9 mA per switched output |
| Power loss                                 |                                 |
| Power loss, typ.                           | 2 W                             |

| Digital outputs   |   |
|---|---|
| Number of digital outputs                               | 8; Relays   |
| Short-circuit protection                                | No  |
| Limitation of inductive shutdown voltage to             | to be provided externally (see manual package "Setting up an S7-200") |
| Output current  |   |
| • for signal "1" rated value                            | 2 A   |
| • for signal "1" permissible range for 0 to 55 °C, max. | 2 A   |
| • for signal "0" residual current, max.                 | 0 mA  |
| Total current of the outputs (per group)                |   |
| all mounting positions                                  |   |
| — up to 40 °C, max.                                     | 8 A   |
| — Current per conductor/group, max.                     | 8 A   |
| horizontal installation                                 |   |
| — up to 55 °C, max.                                     | 8 A   |
| Relay outputs   |   |
| • Number of operating cycles, max.                      | 10 000 000; mechanically 10 million, at rated load voltage 100,000    |
| Switching capacity of contacts                          |   |
| — with inductive load, max.                             | 2 A   |
| — on lamp load, max.                                    | 200 W; 30 W with DC, 200 W with AC                                    |
| — with resistive load, max.                             | 2 A   |
| Cable length  |   |
| • shielded, max.  | 500 m   |
| • unshielded, max.                                      | 150 m   |
| Potential separation                                    |   |
| Potential separation digital outputs                    |   |
| • Potential separation digital outputs                  | Yes; Relays   |
| • between the channels, in groups of                    | 4   |
| Connection method                                       |   |
| Plug-in I/O terminals                                   | Yes   |
| Dimensions  |   |
| Width   | 45 mm   |
| Height  | 80 mm   |
| Depth   | 62 mm   |
| Weights   |   |
| Weight, approx.   | 170 g   |
| <b>last modified:</b>                                   | 31.07.2015  |