

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; 24V AC to 230V 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                                                                   |
| <b>Digital outputs</b>                                  |                                                                       |
| 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") |
| <b>Output current</b>                                   |                                                                       |
| • 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                                                                  |
| <b>Total current of the outputs (per group)</b>         |                                                                       |
| <b>all mounting positions</b>                           |                                                                       |
| — up to 40 °C, max.                                     | 8 A                                                                   |
| — Current per conductor/group, max.                     | 8 A                                                                   |
| <b>horizontal installation</b>                          |                                                                       |
| — up to 55 °C, max.                                     | 8 A                                                                   |
| <b>Relay outputs</b>                                    |                                                                       |
| • Number of operating cycles, max.                      | 10 000 000; mechanically 10 million, at rated load voltage 100 000    |
| <b>Switching capacity of contacts</b>                   |                                                                       |
| — 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                                                                   |
| <b>Cable length</b>                                     |                                                                       |
| • shielded, max.                                        | 500 m                                                                 |
| • unshielded, max.                                      | 150 m                                                                 |
| <b>Potential separation</b>                             |                                                                       |
| <b>Potential separation digital outputs</b>             |                                                                       |
| • Potential separation digital outputs                  | Yes; Relays                                                           |
| • between the channels, in groups of                    | 4                                                                     |
| <b>Connection method</b>                                |                                                                       |
| Plug-in I/O terminals                                   | Yes                                                                   |
| <b>Dimensions</b>                                       |                                                                       |
| Width                                                   | 45 mm                                                                 |
| Height                                                  | 80 mm                                                                 |
| Depth                                                   | 62 mm                                                                 |
| <b>Weights</b>                                          |                                                                       |
| Weight, approx.                                         | 170 g                                                                 |
| <b>last modified:</b>                                   | 09/09/2017                                                            |