

SIMATIC S7-400, SM 422 DIGITAL OUTPUT MODULE, OPTIC.  
ISOLATED, 16 DO, 24V DC, 2A



Figure similar

| Supply voltage                              |        |
|---------------------------------------------|--------|
| Load voltage L+                             |        |
| • Rated value (DC)                          | 24 V   |
| • permissible range, lower limit (DC)       | 20.4 V |
| • permissible range, upper limit (DC)       | 28.8 V |
| Input current                               |        |
| from load voltage L+ (without load), max.   | 30 mA  |
| from backplane bus 5 V DC, max.             | 160 mA |
| Power loss                                  |        |
| Power loss, typ.                            | 5 W    |
| Digital outputs                             |        |
| Number of digital outputs                   | 16     |
| Limitation of inductive shutdown voltage to | -30 V  |
| Switching capacity of the outputs           |        |
| • on lamp load, max.                        | 10 W   |
| Output voltage                              |        |

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| • for signal "1", min.                          | L+ (-0.5 V)                  |
| <b>Output current</b>                           |                              |
| • for signal "1" rated value                    | 2 A                          |
| • for signal "1" permissible range, min.        | 5 mA                         |
| • for signal "1" permissible range, max.        | 2.4 A                        |
| • for signal "0" residual current, max.         | 0.5 mA                       |
| <b>Switching frequency</b>                      |                              |
| • with resistive load, max.                     | 100 Hz                       |
| • with inductive load, max.                     | 0.1 Hz                       |
| <b>Total current of the outputs (per group)</b> |                              |
| all mounting positions                          |                              |
| — up to 60 °C, max.                             | 2 A; 2 adjacent outputs each |
| <b>Cable length</b>                             |                              |
| • shielded, max.                                | 1 000 m                      |
| • unshielded, max.                              | 600 m                        |
| <b>Potential separation</b>                     |                              |
| <b>Potential separation digital outputs</b>     |                              |
| • between the channels, in groups of            | 8                            |
| • between the channels and backplane bus        | Yes                          |
| <b>Isolation</b>                                |                              |
| Isolation tested with                           | 500 V DC                     |
| <b>Dimensions</b>                               |                              |
| Width                                           | 25 mm                        |
| Height                                          | 290 mm                       |
| Depth                                           | 210 mm                       |
| <b>Weights</b>                                  |                              |
| Weight, approx.                                 | 600 g                        |
| <b>last modified:</b>                           | 10/28/2016                   |