

SIMATIC S7-400, DIG.OUTPUT MOD. SM 422, OPTIC. ISOLATED,  
32 DO, 24V DC, 0.5A WITH 0,15 MS OUTPUT DELAY,  
DIAGNOSTICS



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.   | 120 mA     |
| from backplane bus 5 V DC, max.             | 200 mA     |
| Power loss                                  |            |
| Power loss, typ.                            | 8 W        |
| Digital outputs                             |            |
| Number of digital outputs                   | 32         |
| Limitation of inductive shutdown voltage to | L+ (-45 V) |
| Switching capacity of the outputs           |            |
| • on lamp load, max.                        | 5 W        |
| Output voltage                              |            |

|                                                  |                               |
|--------------------------------------------------|-------------------------------|
| • for signal "1", min.                           | L+ (-0.8 V)                   |
| <b>Output current</b>                            |                               |
| • for signal "1" rated value                     | 0.5 A                         |
| • for signal "1" permissible range, min.         | 5 mA                          |
| • for signal "1" permissible range, max.         | 600 A                         |
| • for signal "0" residual current, max.          | 0.5 mA                        |
| <b>Switching frequency</b>                       |                               |
| • with resistive load, max.                      | 100 Hz                        |
| • with inductive load, max.                      | 2 Hz                          |
| <b>Total current of the outputs (per group)</b>  |                               |
| all mounting positions                           |                               |
| — up to 60 °C, max.                              | 2 A                           |
| <b>Cable length</b>                              |                               |
| • shielded, max.                                 | 1 000 m                       |
| • unshielded, max.                               | 600 m                         |
| <b>Interrupts/diagnostics/status information</b> |                               |
| Diagnostics                                      | Yes; internal/ external fault |
| <b>Alarms</b>                                    |                               |
| • Diagnostic alarm                               | Yes; Parameterizable          |
| • Hardware interrupt                             | Yes; Parameterizable          |
| <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                    |