## SIEMENS



SIMATIC S7-400, digital output SM 422, isolated 16 DO; 120/230 V AC, 2 A

Figure similar

## Supply voltage <br> Load voltage L1

- Rated value (AC)
- permissible range, lower limit (AC)
- permissible range, upper limit (AC)
- permissible frequency range, lower limit
- permissible frequency range, upper limit

Input current

| from load voltage L+ (without load), max. | 1.5 mA |
| :--- | :--- |
| from backplane bus 5 V DC, max. | 400 mA |

Power loss, typ. 16 W

Digital outputs
Number of digital outputs 16

Short-circuit protection

- required current for fuse shutdown, min.
- Response time, max.

Controlling a digital input
Size of motor starters according to NEMA, max.
Spare fuses
Zero-crossing switch
Yes; Fuse 8 A, 250 V; per group
100 A
100 ms
Yes; possible
Size 5 according to NEMA
Fuse 8 A, 250 V , quick response
No
Switching capacity of the outputs

- on lamp load, max.

50 W
Output voltage

- for signal "1", min.
- for signal "1" (at max. current), min.
- for signal "1" (at min. current), min.

L1 (-18.1 V)
L1 (-1.3 Vrms)
L1 (-18.1 Vrms)

## Output current

- for signal "1" rated value 2 A
- for signal "1" permissible range, min.
- for signal "1" permissible range, max.
- for signal "1" permissible surge current, max.
- for signal "0" residual current, max.

10 mA
2 A
50 A ; per cycle
2.6 mA

Output delay with resistive load

| $\bullet$ "0" to "1", max. | 1 ms |
| :--- | :--- |
| $\bullet$ "1" to "0", max. | 1 AC cycle |

Parallel switching of two outputs

- for redundant control of a load

Yes; Possible (only outputs with the same load voltage)

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Switching frequency

- with resistive load, max. 10 Hz
- with inductive load, max.
0.5 Hz
- with inductive load (acc. to IEC 60947-5-1, AC15), max.
- on lamp load, max.

1 Hz
Total current of the outputs (per group) all mounting positions

| - up to $40^{\circ} \mathrm{C}$, max. | $4 \mathrm{~A} ; 6 \mathrm{~A}$ with fan assembly |
| :--- | :--- |
| - up to $60^{\circ} \mathrm{C}$, max. | $2 \mathrm{~A} ; 5 \mathrm{~A}$ with fan subassembly; per 4 adjacent outputs |

## Cable length

- shielded, max. 1000 m
- unshielded, max.

600 m
Interrupts/diagnostics/status information

| Diagnostics function | Not parameterizable |
| :---: | :---: |
| Diagnostics indication LED |  |
| - internal fault INTF (red) | Yes; Fuse blown |
| - external fault EXTF (red) | Yes; Missing load voltage |
| Potential separation |  |
| Potential separation digital outputs |  |
| - between the channels | Yes |
| - between the channels, in groups of | 4 |
| - between the channels and backplane bus | Yes |
| Isolation |  |
| Isolation tested with | 1500 V AC |
| Dimensions |  |
| Width | 25 mm |
| Height | 290 mm |
| Depth | 210 mm |
| Weights |  |
| Weight, approx. | 800 g |
| last modified: | 1/16/2021 |

