

Siemens 6ES7422-1FH00-0AA0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	-

Description

6ES7422-1FH00-0AA0

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

Supply voltage

Load voltage L1

- Rated value (AC) 230 V; 120/230 V AC
- permissible range, lower limit (AC) 79 V
- permissible range, upper limit (AC) 264 V
- permissible frequency range, lower limit 47 Hz
- permissible frequency range, upper limit 63 Hz

Input current

from load voltage L+ (without load), max. 1.5 mA

from backplane bus 5 V DC, max. 400 mA

Power loss

Power loss, typ. 16 W

Digital outputs

Number of digital outputs 16

Short-circuit protection Yes; Fuse 8 A, 250 V; per group

- required current for fuse shutdown, min. 100 A
- Response time, max. 100 ms

Controlling a digital input Yes; possible

Size of motor starters according to NEMA, max. Size 5 according to NEMA

Spare fuses Fuse 8 A, 250 V, quick response

Zero-crossing switch No

Switching capacity of the outputs

- on lamp load, max. 50 W

Output voltage

- for signal "1", min. L1 (-18.1 V)
- for signal "1" (at max. current), min. L1 (-1.3 Vrms)
- for signal "1" (at min. current), min. L1 (-18.1 Vrms)

Output current

- for signal "1" rated value 2 A
- for signal "1" permissible range, min. 10 mA
- for signal "1" permissible range, max. 2 A
- for signal "1" permissible surge current, max. 50 A; per cycle
- for signal "0" residual current, max. 2.6 mA

Output delay with resistive load

- "0" to "1", max. 1 ms
- "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)

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. 0.5 Hz
- on lamp load, max. 1 Hz

Total current of the outputs (per group)

all mounting positions

— up to 40 °C, max. 4 A; 6 A with fan assembly

— up to 60 °C, max. 2 A; 5 A with fan subassembly; per 4 adjacent outputs

Cable length

- shielded, max. 1 000 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 1 500 V AC

Dimensions

Width 25 mm

Height 290 mm

Depth 210 mm

Weights

Weight, approx. 800 g

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