## **SIEMENS**

## **Data sheet**

## 6ES7422-1FH00-0AA0



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

Figure similar

Supply voltage		
Load voltage L1		
• Rated value (AC)	230 V; 120/230 V AC	
<ul> <li>permissible range, lower limit (AC)</li> </ul>	79 V	
<ul> <li>permissible range, upper limit (AC)</li> </ul>	264 V	
<ul> <li>permissible frequency range, lower limit</li> </ul>	47 Hz	
<ul> <li>permissible frequency range, upper limit</li> </ul>	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	
<ul> <li>required current for fuse shutdown, min.</li> </ul>	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		
<ul><li>for signal "1" rated value</li></ul>	2 A	
<ul><li>for signal "1" permissible range, min.</li></ul>	10 mA	
<ul><li>for signal "1" permissible range, max.</li></ul>	2 A	
<ul><li>for signal "1" permissible surge current, max.</li></ul>	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		

<ul> <li>with resistive load, max.</li> </ul>	10 Hz
<ul> <li>with inductive load, max.</li> </ul>	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	
<ul><li>internal fault INTF (red)</li></ul>	Yes; Fuse blown
external fault EXTF (red)	Yes; Missing load voltage
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	4
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	
Isolation tested with	1 500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	800 g
	-

last modified: 3/12/2024 🖸