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	
 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; Clocked electronically: Following a short-circuit, reclosing under a full load cannot be ensured. Countermeasures: change the signal at the output or interrupt the load voltage of the module. Briefly disconnect the load from the output.	
 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
last modified:	12/8/2024 🖸