SIEMENS

Data sheet

6ES7422-1BH11-0AA0

SIMATIC S7-400, digital output SM 422, isolated 16 DO; 24 V DC, 2 A



Figuresinna	
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.	30 mA
from backplane bus 5 V DC, max.	160 mA
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	2.8 to 6 A
Limitation of inductive shutdown voltage to	-30 V
Controlling a digital input	Yes; possible
Switching capacity of the outputs	
 on lamp load, max. 	10 W
Load resistance range	
lower limit	24 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.5 V)
Output current	
 for signal "1" rated value 	2 A
 for signal "1" permissible range, min. 	5 mA
 for signal "1" permissible range, max. 	2.4 A
 for signal "0" residual current, max. 	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	1 ms
• "1" to "0", max.	1 ms
Parallel switching of two outputs	
• for uprating	No; Not possible
 for redundant control of a load 	Yes; possible (only outputs of the same group)
Switching frequency	
 with resistive load, max. 	100 Hz
 with inductive load, max. 	0.1 Hz
 with inductive load (acc. to IEC 60947-5-1, DC13), max. 	0.2 Hz; 0.2 Hz at 1 A; 0.1 Hz at 2 A
 on lamp load, max. 	10 Hz



3 A	
2 A; 2 adjacent outputs each	
1 000 m	
600 m	
Interrupts/diagnostics/status information	
No	
Yes	
8	
Yes	
500 V DC	
25 mm	
290 mm	
210 mm	
600 g	

last modified:

8/7/2023 🖸

