SIEMENS

Data sheet

6ES7422-1BL00-0AA0

SIMATIC S7-400, digital output SM 422, isolated 32 DO; 24 V DC, 0.5 A

Figure similar

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.	200 mA
Power loss	
Power loss, typ.	4 W
Digital outputs	
Number of digital outputs	32
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	0.7 to 1.5 A
Limitation of inductive shutdown voltage to	-27 V
Controlling a digital input	Yes; possible
Switching capacity of the outputs	
 on lamp load, max. 	5 W
Load resistance range	
lower limit	48 Ω
● upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.3 V)
Output current	
 for signal "1" rated value 	0.5 A
 for signal "1" permissible range, min. 	5 mA
 for signal "1" permissible range, max. 	0.6 A
 for signal "0" residual current, max. 	0.3 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	Yes; possible (only outputs of the same group)
 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. 	0.5 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	2 Hz; 2 Hz at 0.3 A; 0.5 Hz at 0.5 A
 on lamp load, max. 	10 Hz

4 A	
2 A; 8 adjacent outputs each	
1 000 m	
600 m	
Interrupts/diagnostics/status information	
No	
Potential separation	
No	
32	
Yes	
500 V AC/707 V DC, type test	
25 mm	
290 mm	
210 mm	
600 g	

last modified:

3/12/2024 🖸