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

0.5 Hz	
2 Hz; 2 Hz at 0.3 A; 0.5 Hz at 0.5 A	
10 Hz	
Total current of the outputs (per group) all mounting positions	
4 A	
2 A; 8 adjacent outputs each	
1 000 m	
600 m	
No	
No	
32	
Yes	
500 V DC	
500 V DC	
500 V DC 25 mm	
25 mm	
25 mm 290 mm	

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last modified: