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	

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Total current of the outputs (per group)	
all mounting positions	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	2 A; 8 adjacent outputs each
Cable length	
shielded, max.	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Potential separation	
Potential separation digital outputs	
 between the channels 	No
 between the channels, in groups of 	32
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	600 g
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