## **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+		
<ul> <li>Rated value (DC)</li> </ul>	24 V	
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V	
<ul> <li>permissible range, upper limit (DC)</li> </ul>	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	
<ul> <li>Response threshold, typ.</li> </ul>	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		
<ul><li>on lamp load, max.</li></ul>	5 W	
Load resistance range		
<ul> <li>lower limit</li> </ul>	48 Ω	
• upper limit	4 kΩ	
Output voltage		
• for signal "1", min.	L+ (-0.3 V)	
Output current		
<ul><li>for signal "1" rated value</li></ul>	0.5 A	
<ul><li>for signal "1" permissible range, min.</li></ul>	5 mA	
<ul><li>for signal "1" permissible range, max.</li></ul>	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		
<ul> <li>with resistive load, max.</li> </ul>	100 Hz	
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz	
<ul> <li>with inductive load (acc. to IEC 60947-5-1, DC13),</li> </ul>	2 Hz; 2 Hz at 0.3 A; 0.5 Hz at 0.5 A	

max.	
● on lamp load, max.	10 Hz
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
<ul><li>unshielded, max.</li></ul>	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	32
<ul> <li>between the channels and backplane bus</li> </ul>	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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