## **SIEMENS**

## **Data sheet**

## 6ES7422-7BL00-0AB0



SIMATIC S7-400, digital output SM 422, isolated 32 DO; 24 V DC, 0.5 A with 0.15 ms output delay, diagnostics

Figure similar

- * 100 CO		
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.	120 mA	
from backplane bus 5 V DC, max.	200 mA	
Power loss		
Power loss, typ.	8 W	
Digital outputs		
Number of digital outputs	32	
Short-circuit protection	Yes; Clocked electronically	
Response threshold, typ.	0.75 to 1.5 A	
Limitation of inductive shutdown voltage to	L+ (-45 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+ (-0.8 V)	
Output current		
• for signal "1" rated value	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>	600 A	
• for signal "0" residual current, max.	0.5 mA	
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>	2 Hz	
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	2 Hz	
on lamp load, max.	2 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
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
Hardware interrupt	Yes; Parameterizable
Diagnoses	
Diagnostic information readable	Yes
Wire-break	Yes; <0.15 mA
Short-circuit	Yes; > 1 A (typ.)
Diagnostics indication LED	
internal fault INTF (red)	Yes
<ul> <li>external fault EXTF (red)</li> </ul>	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	8
<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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