## **SIEMENS**

## **Data sheet**

## 6ES7422-1BH11-0AA0



SIMATIC S7-400, digital output SM 422, isolated 16 DO; 24 V DC, 2 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.	160 mA
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	2.8 to 6 A
Limitation of inductive shutdown voltage to	-30 V
Controlling a digital input	Yes; possible
Switching capacity of the outputs	
on lamp load, max.	10 W
Load resistance range	
lower limit	24 Ω
upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.5 V)
Output current	
● for signal "1" rated value	2 A
<ul><li>for signal "1" permissible range, min.</li></ul>	5 mA
<ul><li>for signal "1" permissible range, max.</li></ul>	2.4 A
for signal "0" residual current, max.	0.5 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	No; Not possible
for redundant control of a load	Yes; possible (only outputs of the same group)
Switching frequency	400 H
with resistive load, max.	100 Hz
with inductive load, max.	0.1 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, DC13), max.</li> </ul>	0.2 Hz; 0.2 Hz at 1 A; 0.1 Hz at 2 A
on lamp load, max.	10 Hz

Total current of the outputs (per group)	
all mounting positions	
— up to 40 °C, max.	3 A
— up to 60 °C, max.	2 A; 2 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	
<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

last modified:

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