SIEMENS

Data sheet

6ES7422-1BH11-0AA0



SIMATIC S7-400, digital output SM 422, isolated 16 DO; 24 V DC, 2 A

Figure similar

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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.	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	
for signal "1" permissible range, min.	5 mA	
for signal "1" permissible range, max.	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		
with resistive load, max.	100 Hz	
with inductive load, max.	0.1 Hz	
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.2 Hz; 0.2 Hz at 1 A; 0.1 Hz at 2 A	
on lamp load, max.	10 Hz	

T-1-1		
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		
 between the channels 	Yes	
 between the channels, in groups of 	8	
 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	
Troigin, approx.	500 9	

last modified:

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