SIEMENS

Data sheet



SIMATIC S7-400, digital output SM 422, isolated 16 DO; 5..230 V AC, 5 A relay

Figure similar

Supply voltage		
Load voltage L+		
 Rated value (DC) 	60 V	
 permissible range, lower limit (DC) 	1 V	
 permissible range, upper limit (DC) 	60 V	
Load voltage L1		
 Rated value (AC) 	230 V	
 permissible range, lower limit (AC) 	2 V	
 permissible range, upper limit (AC) 	264 V	
Input current		
from backplane bus 5 V DC, max.	1 A	
Power loss		
Power loss, typ.	4.5 W	
Digital outputs		
Number of digital outputs	16; Relays	
Short-circuit protection	No	
Controlling a digital input	Yes; possible	
Size of motor starters according to NEMA, max.	Size 5 according to NEMA	
Switching capacity of the outputs		
on lamp load, max.	60 W	
Output current		
for signal "1" rated value	5 A	
◆ for signal "1" minimum load current	11 mA	
Parallel switching of two outputs		
for uprating	No; Not possible	
for redundant control of a load	Yes; Possible (only outputs with the same load voltage)	
Switching frequency		
 with resistive load, max. 	10 Hz	
 With inductive load (to IEC 60947-5-1, DC13/AC15), max. 	1 Hz	
on lamp load, max.	1 Hz	
mechanical, max.	20 Hz	
Total current of the outputs (per group)		
all mounting positions		
— up to 40 °C, max.	10 A; 10 A with fan subassembly	
— up to 60 °C, max.	5 A; 10 A with fan subassembly	
Relay outputs		
 Number of operating cycles, max. 	100 000; 100 000 (AC-15 / DC-13); 3 000 000 mechanical	
Switching capacity of contacts		
— with inductive load, max.	5 A; 5 A (30 V DC), 5 A (230 V AC)	

— with resistive load, max.	5 A; 5 A (30 V DC), 5 A (230 V AC), 1.2 A (60 V DC), 0.2 A (125 V DC)
 Thermal continuous current, max. 	5 A
Cable length	
shielded, max.	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Diagnostics indication LED	
 Status indicator digital output (green) 	Yes; per channel
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	2
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	1 500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	700 g

last modified:

8/30/2023

