SIEMENS

Data sheet

6ES7222-1XF32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 8 DO, Relay Changeover contact

Product type designation S	SM 1222, DQ 8x relay/2 A	
Supply voltage		
permissible range, lower limit (DC) 2	20.4 V	
permissible range, upper limit (DC) 2	28.8 V	
Input current		
from backplane bus 5 V DC, max.	140 mA	
Digital outputs		
• from load voltage L+, max.	16.7 mA/relay coil	
Power loss		
Power loss, typ. 5	5 W	
Digital outputs		
Number of digital outputs 8	3	
• in groups of 1	1	
Short-circuit protection	No; to be provided externally	
Switching capacity of the outputs		
• with resistive load, max. 2	2 A	
• on lamp load, max.	30 W with DC, 200 W with AC	
Output voltage		
Rated value (DC)	5 V DC to 30 V DC	
Rated value (AC)	5 V AC to 250 V AC	
Output current		
	2 A	
Output delay with resistive load		
	10 ms	
	10 ms	
Total current of the outputs (per group)		
horizontal installation		
· · · · · · · · · · · · · · · · · · ·	2 A; Current per mass	
Relay outputs	2	
Number of relay outputs		
	24 V	
	nechanically 10 million, at rated load voltage 100 000	
Switching capacity of contacts — with inductive load, max. 2	2 A	
	30 W with DC, 200 W with AC	
	2 A	
Cable length		
-	500 m	

e unshielded may	150 m
 unshielded, max. 	150 11
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
for status of the outputs	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Relays
 between the channels, in groups of 	1
 between the channels and backplane bus 	1 500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
 Fall height, max. 	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	60 °C; Number of simultaneously activated outputs: 4 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 at 55 °C horizontal or 45 °C vertical
 horizontal installation, min. 	-20 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-20 °C
 vertical installation, max. 	50 °C
 permissible temperature change 	5°C to 55°C, 3°C / minute
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
 Storage/transport, min. 	660 hPa
 Storage/transport, max. 	1 080 hPa
Relative humidity	
 Operation at 25 ℃ without condensation, max. 	95 %
connection method / header	
required front connector	Yes
Mechanics/material	
Enclosure material (front) Plastic 	Yes
	100
Dimensions	
Width	70 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	310 g
last modified:	2/26/2021 🖸