SIEMENS

Data sheet

6ES7222-1XF32-0XB0



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

General information	
Product type designation	SM 1222, DQ 8x relay/2 A
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	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 W
Digital outputs	
Number of digital outputs	8
in groups of	1
Short-circuit protection	No; to be provided externally
Switching capacity of the outputs	
 with resistive load, max. 	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	
for signal "1" rated value	2 A
Output delay with resistive load	
• "0" to "1", max.	10 ms
• "1" to "0", max.	10 ms
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max.	2 A; Current per mass
Relay outputs	
 Number of relay outputs 	8
 Rated supply voltage of relay coil L+ (DC) 	24 V
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Switching capacity of contacts	
— with inductive load, max.	2 A
— on lamp load, max.	30 W with DC, 200 W with AC
— with resistive load, max.	2 A
Cable length	F00 ···
• shielded, max.	500 m

- unabialded may	450	
unshielded, max.	150 m	
Interrupts/diagnostics/status information		
Alarms		
Diagnostic alarm	Yes	
Diagnostics indication LED	V.	
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 °C without condensation, max. 	95 %	
connection method / header		
required front connector	Yes	
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	
Dimensions		
Width	70 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	310 g	
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