SIEMENS

Data sheet

6ES7222-1HF32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 8 DO, relay 2 A

Figure	similar	
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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.	120 mA	
Digital outputs		
 from load voltage L+, max. 	11 mA/relay coil	
Power loss		
Power loss, typ.	4.5 W	
Digital outputs		
Number of digital outputs	8	
• in groups of	2	
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.	10 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		
 shielded, max. 	500 m	

• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	100
for status of the outputs	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Relays
between the channels, in groups of	2
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 RCM (formerly C-TICK)	Yes
KCivi (ionneny C-NCK) 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
horizontal installation, min.	-20 °C
horizontal installation, max.	20 °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	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Dimensions	100
	45 mm
Width	45 mm
Height	100 mm
Depth Weights	75 mm
	100 a
Weight, approx.	190 g
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