SIEMENS

Data sheet

6ES7222-1HF32-0XB0



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

Figure similar

F & HESCH	
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	100 111	
Alarms		
Diagnostic alarm	Yes	
Diagnostics indication LED	165	
for status of the outputs	Yes	
·	Tes	
Potential separation		
Potential separation digital outputs	Deleve	
between the channels	Relays 2	
 between the channels, in groups of between the channels and backplane bus 	1 500 V AC for 1 minute	
Permissible potential difference	1 500 V AC IOI 1 ITIIIIIUle	
between different circuits	750 V AC for 1 minute	
Degree and class of protection	750 V AC IOI 1 IIIIIIlule	
	IP20	
IP degree of protection	IP20	
Standards, approvals, certificates	V	
CE mark	Yes	
CSA approval	Yes	
UL approval	Yes	
CULus	Yes	
FM approval	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
Marine approval Ambient conditions	Yes	
Free fall	0.2 mg five times in product pooless	
Fall height, max. Ambient temperature during energtion.	0.3 m; five times, in product package	
Ambient temperature during operation	-20 °C	
• min.	-20 °C	
• max.	-20 °C	
horizontal installation, min.	-20 °C	
horizontal installation, max.vertical installation, min.	-20 °C	
vertical installation, max.	-20 °C	
•	5°C to 55°C, 3°C / minute	
permissible temperature change Ambient temperature during storage/transportation	5 C to 55 C, 5 C / Hilliote	
min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13	70 C	
Storage/transport, min.	660 hPa	
Storage/transport, max.	1 080 hPa	
Relative humidity	1 000 111 4	
Operation at 25 °C without condensation, max.	95 %	
connection method	00 %	
	Yes	
required front connector Mechanics/material	Tes	
Enclosure material (front)	Van	
Plastic Dimensions	Yes	
	AF man	
Width	45 mm	
Height	100 mm	
Depth	75 mm	
Weights	400 ~	
Weight, approx.	190 g	
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