SIEMENS

Data sheet

6ES7222-1HF32-0XB0



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

Figure similar

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	40.4.0
— up to 50 °C, max.	10 A; Current per mass
	0
	mechanically to million, actated load voltage 100 000
• • •	2 /
· · · · · · · · · · · · · · · · · · ·	
·	4 N
	500 m
Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. — with resistive load, max. Cable length shielded, max. unshielded, max.	8 24 V mechanically 10 million, at rated load voltage 100 000 2 A 30 W with DC, 200 W with AC 2 A 500 m 150 m

1.6	
Interrupts/diagnostics/status information	
Alarms	N.
Diagnostic alarm Diagnostics indication LED	Yes
Diagnostics indication LED • for status of the outputs	Yes
·	res
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	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
 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	05.0/
Operation at 25 °C without condensation, max.	95 %
connection method / header	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	Voc
Plastic Dimensions	Yes
	45
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	100
Weight, approx.	190 g
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