SIEMENS

Data sheet

6ES7222-1HH32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 16 DO, relay 2 A

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General information		
Product type designation	SM 1222, DQ 16x 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.	135 mA	
Digital outputs		
 from load voltage L+, max. 	11 mA/relay coil	
Power loss		
Power loss, typ.	8.5 W	
Digital outputs		
Number of digital outputs	16	
• 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.	10 A; Current per mass	
Relay outputs		
 Number of relay outputs 	16	
 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	Van		
Diagnostic alarm	Yes		
Diagnostics indication LED • for status of the outputs	Yes		
i			
Potential separation			
Potential separation digital outputs • between the channels	Polovo		
 between the channels, in groups of 	Relays 4		
 between the channels, in groups of between the channels and backplane bus 	1 500 V AC for 1 minute		
Permissible potential difference	1 300 V AC IOI T ININULE		
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 Marine approval	Yes Yes		
	TES		
Ambient conditions			
Free fall	0.2 multive times in product peckage		
Fall height, max. Ambient temperature during operation	0.3 m; five times, in product package		
min.	-20 °C		
• max.	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 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	05.0/		
 Operation at 25 °C without condensation, max. 	95 %		
connection method / header			
required front connector	Yes		
Mechanics/material			
Enclosure material (front)			
Plastic	Yes		
Dimensions			
Width	45 mm		
Height	100 mm		
Depth	75 mm		
Weights			
Weight, approx.	260 g		
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