SIEMENS

Data sheet

6ES7222-1HH32-0XB0

SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 16 DO, RELAY 2A



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 inputs		
• from load voltage L+ (without load), max.	11 mA/relay coil	
Power losses		
Power loss, typ.	8.5 W	
Digital inputs		
Number of digital inputs	0	
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" permissible range, max.	2 A	

Output delay with resistive load	
• "0" to "1", max.	10 ms
• "1" to "0", max.	10 ms
Aggregate current of outputs (per group)	
horizontal installation	
— up to 50 °C, max.	10 A; Current per mass
Relay outputs	. ,
Number of relay outputs	16
Rated input 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	Yes
• Alarms	
Diagnostic alarm	Yes
Diagnostic messages	Yes
Diagnostic functions Magitaring the graph well-series.	Yes
Monitoring the supply voltage Diagnostics indication LED.	165
Diagnostics indication LED For status of the outputs	Yes
·	Yes
• for maintenance	Yes
Status indicator digital output (green) Potential separation digital outputs	165
between the channels	Relays
between the channels, in groups of	4
 between the channels, in groups of between the channels and the backplane bus 	1500 V AC for 1 minute
- between the chamiles and the backplane bus	1000 V Ato for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
Degree of protection to EN 60529	
● IP20	Yes
• IP20 Standards, approvals, certificates	Yes
	Yes Yes Yes

UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Marine approval	
Marine approval	Yes
Ambient conditions	
Ambient conditions Free fall	
Drop height, max. (in packaging)	0.3 m; five times, in dispatch package
Ambient temperature in operation	, , , , , , , , , , , , , , , , , , , ,
Permissible temperature range	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical
	mounting, 95% humidity, non-condensing
• 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
 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	
 Permissible range (without condensation) at 25 °C 	95 %
Connection method	
required front connector	Yes
Mechanics/material	
Type of housing (front)	
• plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	260 g
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