SIEMENS

Product data sheet

6ES7222-1HH32-0XB0



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

Supply voltage	33333	
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 loss		
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 (AC)	5 V AC to 250 V AC
Rated value (DC)	5 V DC to 30 V DC
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
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 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	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
Monitoring the supply voltage	Yes
Diagnostics indication LED	
for status of the outputs	Yes
for maintenance	Yes
Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	Pulsas
between the channels in groups of	Relays
between the channels, in groups of	4 1500 V AC for 1 minute
between the channels and the backplane bus	1500 V AC for 1 minute

Permissible potential difference		
between different circuits	750 V AC for 1 minute	
Degree and class of protection		
IP20	Yes	
Standards, approvals, certificates		
CE mark	Yes	
CSA approval	Yes	
UL	Yes	
cULus	Yes	
RCM (former C-TICK)	Yes	
FM approval	Yes	
Marine approval		
Marine approval	Yes	
Climatic and mechanical conditions for storage and transport		
Climatic conditions for storage and transport		
Free fall		
Drop height, max. (in packaging)	0.3 m; five times, in dispatch package	
Temperature		
permissible temperature range	-40 °C to +70 °C	
Air pressure acc. to IEC 60068-2-13		
permissible air pressure	1080 to 660 hPa	
Relative humidity		
permissible range (without condensation) at 25 °C	95 %	
Mechanical and climatic conditions during operation		
Climatic conditions in operation		
Temperature		
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	
permissible temperature change	5°C to 55°C, 3°C / minute	
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
Status	Jul 7, 2014