SIEMENS

Product data sheet

6ES7222-1HF32-0XB0



SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 8 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.	120 mA	
Digital inputs		
from load voltage L+ (without load), max.	11 mA/relay coil	
Power losses		
Power loss, typ.	4.5 W	
Digital inputs		
Number/binary inputs	0	
Digital outputs		
Number/binary outputs	8	
In groups of	2	
Functionality/short-circuit strength	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 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	8
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
Switching frequency/contacts/at ohmic load/maximum	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	
between the channels	Relay
between the channels, in groups of	2
between the channels and the backplane bus	1500 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
с-тіск	Yes
FM approval	Yes
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
Mechanical and climatic conditions during operation	n
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
Weight	
Weight, approx.	190 g
Status	Aug 8, 2013