SIEMENS

Product data sheet

6ES7222-1HH30-0XB0



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

Supply voltage	
permissible range, lower limit (DC)	5 V
permissible range, upper limit (DC)	30 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 (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	
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		
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	
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	Relays	
between the channels, in groups of	4	
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
RCM (formerly C-TICK)	Yes
FM 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	0 °C to 55 °C horizontal installation, 0 °C to 45 °C vertical installation
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	Sep 8, 2014