SIEMENS

Product data sheet

6ES7222-1HF30-0XB0



SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 8 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.	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 of digital inputs	0	
Digital outputs		
Number of digital outputs	8	
In groups of	2	
Short-circuit protection	No	
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	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	
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	2	
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 (former 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 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.	190 g	
Status	Apr 2, 2014	