SIEMENS

Product data sheet

6ES7222-1XF32-0XB0



SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 8 DO, RELAY CHANGEOVER CONTACT

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.	140 mA
Digital inputs	
from load voltage L+ (without load), max.	16.7 mA/relay coil
Power losses	
Power loss, typ.	5 W
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	8
In groups of	1
Product function / at the digital outputs / short-circuit protection	No
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.	2 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	1	
between the channels and the backplane bus	1500 V AC for 1 minute	

between different circuits 750 V AC for 1 minute Degree and class of protection Yes IP20 Yes Standards, approvals, certificates Yes CE mark Yes CSA approval Yes UL Yes cULus Yes C-TICK Yes FM approval Yes Marine approval Yes Climatic and mechanical conditions for storage and transport	
IP20YesStandards, approvals, certificatesCE markYesCSA approvalYesULYescULusYescULusYesFM approvalYesMarine approvalYes	
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C-TICK Yes FM approval Yes Marine approval Yes	
FM approval Yes Marine 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	
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	al
Min20 °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)	
Type of housing (front) Plastic Yes	
Plastic Yes	

Depth	75 mm
Weights	
Weight, approx.	310 g
Status	Oct 28, 2013