## SIEMENS

Product data sheet

## 6ES7222-1XF30-0XB0

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 loss	
Power loss, typ.	5 W
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	8
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.	2 A ; Current per mass
Relay outputs	
Number of relay outputs	8

Rated supply 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		
Galvanic isolation Galvanic isolation digital outputs		
	Relays	
Galvanic isolation digital outputs	Relays 1	
Galvanic isolation digital outputs between the channels		
Galvanic isolation digital outputs between the channels between the channels, in groups of	1	
Galvanic isolation digital outputs between the channels between the channels, in groups of between the channels and the backplane bus	1	
Galvanic isolation digital outputs between the channels between the channels, in groups of between the channels and the backplane bus Permissible potential difference	1 1500 V AC for 1 minute	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits	1 1500 V AC for 1 minute	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection	1 1500 V AC for 1 minute 750 V AC for 1 minute	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20	1 1500 V AC for 1 minute 750 V AC for 1 minute	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates         CE mark	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes Yes	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates         CE mark         RCM (former C-TICK)	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes Yes Yes	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates         CE mark         RCM (former C-TICK)         FM approval	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes Yes Yes	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates         CE mark         RCM (former C-TICK)         FM approval         Climatic and mechanical conditions for storage and trans	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes Yes Yes	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates         CE mark         RCM (former C-TICK)         FM approval         Climatic and mechanical conditions for storage and transport	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes Yes Yes	
Galvanic isolation digital outputs         between the channels         between the channels, in groups of         between the channels and the backplane bus         Permissible potential difference         between different circuits         Degree and class of protection         IP20         Standards, approvals, certificates         CE mark         RCM (former C-TICK)         FM approval         Climatic and mechanical conditions for storage and transport         Free fall	1 1500 V AC for 1 minute 750 V AC for 1 minute Yes Yes Yes Yes Oort	

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	70 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	310 g
Status	Jul 28, 2014