## **SIEMENS**

## Data sheet

## 6ES7222-1XF30-0XB0

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



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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.	140 mA
Digital inputs	
<ul> <li>from load voltage L+ (without load), max.</li> </ul>	16.7 mA/relay coil
Power loss	
Power loss, typ.	5 W
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	

• Detective (DC)	5V DC to 30V DC
Rated value (DC)	5 V AC to 250 V AC
Rated value (AC)	5 V AC 10 250 V AC
Output current	2 A
• for signal "1" permissible range, max.	ZA
Output delay with resistive load	10 mg
• "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	
<ul> <li>Number of relay outputs</li> </ul>	8
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	24 V
<ul> <li>Number of operating cycles, max.</li> </ul>	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	
● shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	Yes
	Yes Yes
Alarms	
Alarms Diagnostic functions	
Alarms Diagnostic functions Alarms	Yes
Alarms Diagnostic functions Alarms • Diagnostic alarm	Yes
Alarms Diagnostic functions Alarms • Diagnostic alarm Diagnostics indication LED	Yes
Alarms Diagnostic functions Alarms • Diagnostic alarm Diagnostics indication LED • for status of the outputs	Yes Yes
Alarms Diagnostic functions Alarms • Diagnostic alarm Diagnostics indication LED • for status of the outputs • for maintenance	Yes Yes Yes Yes
Alarms Diagnostic functions Alarms • Diagnostic alarm Diagnostics indication LED • for status of the outputs • for maintenance • Status indicator digital output (green)	Yes Yes Yes Yes
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)	Yes Yes Yes Yes
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs	Yes Yes Yes Yes Yes
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs         • between the channels	Yes Yes Yes Yes Yes Yes
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs         • between the channels         • between the channels, in groups of	Yes Yes Yes Yes Yes Relays 1
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs         • between the channels         • between the channels and backplane bus	Yes Yes Yes Yes Yes Relays 1
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs         • between the channels         • between the channels and backplane bus	Yes Yes Yes Yes Yes Yes Yes
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs         • between the channels         • between the channels and backplane bus         Permissible potential difference         between different circuits	Yes Yes Yes Yes Yes Yes Yes
Alarms         Diagnostic functions         Alarms         • Diagnostic alarm         Diagnostics indication LED         • for status of the outputs         • for maintenance         • Status indicator digital output (green)         Potential separation         Potential separation digital outputs         • between the channels         • between the channels and backplane bus         Permissible potential difference         between different circuits         Degree and class of protection	Yes Yes Yes Yes Yes Yes Yes

Standards, approvals, certificates		
CE mark	Yes	
CSA approval	Yes	
UL approval	Yes	
cULus	Yes	
FM approval	Yes	
RCM (formerly C-TICK)	Yes	
Ambient conditions		
Free fall		
<ul> <li>Fall height, max.</li> </ul>	0.3 m; five times, in dispatch package	
Ambient temperature during operation		
<ul> <li>permissible temperature range</li> </ul>	0 °C to 55 °C horizontal installation, 0 °C to 45 °C vertical installation	
• min.	-20 °C	
• max.	60 °C	
• permissible temperature change	5°C to 55°C, 3°C / minute	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13		
<ul> <li>Storage/transport, min.</li> </ul>	660 hPa	
<ul> <li>Storage/transport, max.</li> </ul>	1 080 hPa	
Relative humidity		
<ul> <li>permissible range (without condensation) at 25</li> <li>°C</li> </ul>	95 %	
Connection method		
required front connector	Yes	
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	
Dimensions		
Width	70 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	310 g	
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