SIEMENS

Data sheet

6ES7222-1XF32-0XB0

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



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	
 from load voltage L+ (without load), max. 	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	

	5V DC to 30V DC
Rated value (AC)	5 V AC to 250 V AC
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	
• shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	Yes
Alarms Diagnostic functions	Yes Yes
Diagnostic functions	
Diagnostic functions Alarms	Yes
Diagnostic functions Alarms • Diagnostic alarm	Yes
Diagnostic functions Alarms • Diagnostic alarm Diagnostics indication LED	Yes
Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs	Yes Yes Yes
Diagnostic functions Alarms • Diagnostic alarm Diagnostics indication LED • for status of the outputs • for maintenance • Status indicator digital output (green) Potential separation	Yes Yes Yes Yes Yes
Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs for maintenance Status indicator digital output (green)	Yes Yes Yes Yes Yes
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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 Yes Yes
Diagnostic functions Alarms Diagnostics 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 Yes Relays
Diagnostic functions Alarms Diagnostics 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 between the channels and backplane bus Permissible potential difference	Yes Yes Yes Yes Yes Yes Yes 1
Diagnostic functions Alarms Diagnostics 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 between the channels and backplane bus	Yes Yes Yes Yes Yes Yes Yes 1
Diagnostic functions Alarms Diagnostics 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 between the channels and backplane bus Permissible potential difference between different circuits Degree and class of protection	Yes Yes Yes Yes Yes Yes Yes 1 1500 V AC for 1 minute
Diagnostic functions Alarms Diagnostics 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 between the channels and backplane bus Permissible potential difference between different circuits	Yes Yes Yes Yes Yes Yes Yes 1 1500 V AC for 1 minute

Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Marine approval	
Marine approval	Yes
Ambient conditions	
Free fall	
Fall height, max.	0.3 m; five times, in dispatch package
Ambient temperature during operation	
permissible temperature rangemin.	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical mounting, 95% humidity, non-condensing -20 °C
• max.	60 °C; Number of simultaneously activated outputs: 4 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 at 55 °C horizontal or 45 °C vertical
 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	
Storage/transport, min.	660 hPa
Storage/transport, max.	1 080 hPa
Relative humidity	
• permissible range (without condensation) at 25 °C	95 %
Connection method	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	310 g

last modified: 22.01.2016