SIEMENS

Data sheet

6ES7222-1XF30-0XB0

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 outputs	
• from load voltage L+, 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	

Rated value (DC)	5 V DC to 30 V 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	
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 Yes
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED of or status of the outputs for maintenance	Yes Yes Yes
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED of for status of the outputs for maintenance Potential separation	Yes Yes Yes
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED of or status of the outputs for maintenance 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 Potential separation Potential separation digital outputs between the channels	Yes Yes Yes Yes Yes Relays
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs for maintenance 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 1
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED of or status of the outputs for maintenance Potential separation Potential separation digital outputs between the channels between the channels, in groups of	Yes Yes Yes Yes Yes Yes 1
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs for maintenance 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 1 1500 V AC for 1 minute
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED of or status of the outputs for maintenance Potential separation Potential separation digital outputs obetween 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 1 1500 V AC for 1 minute
Alarms Diagnostic functions Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs for maintenance 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 1 1500 V AC for 1 minute
Alarms Diagnostic functions Alarms Diagnostics alarm Diagnostics indication LED of or status of the outputs of for maintenance Potential separation Potential separation digital outputs obetween the channels obetween the channels, in groups of obetween the channels and backplane bus Permissible potential difference between different circuits Degree and class of protection Degree of protection acc. to EN 60529	Yes Yes Yes Yes Yes Tes Relays 1 1500 V AC for 1 minute

05	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Ambient conditions	
Free fall	
● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
 horizontal installation, min. 	0 °C
 horizontal installation, max. 	55 °C
• vertical installation, min.	0 °C
• vertical installation, max.	45 °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	
Storage/transport, min.	660 hPa
• Storage/transport, max.	1 080 hPa
Relative humidity	
Operation at 25 °C without condensation, max.	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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