## **SIEMENS**

## **Data sheet**

6ES7222-1HF32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 8 DO, relay 2 A

Figure similar

General information	
Product type designation	SM 1222, DQ 8x relay/2 A
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.	120 mA
Digital outputs	
<ul> <li>from load voltage L+, max.</li> </ul>	11 mA/relay coil
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	8
• in groups of	2
Short-circuit protection	No; to be provided externally
Switching capacity of the outputs	
<ul> <li>with resistive load, max.</li> </ul>	2 A
on lamp load, max.	30 W with DC, 200 W with AC
Output voltage	
<ul> <li>Rated value (DC)</li> </ul>	5 V DC to 30 V DC
Rated value (AC)	5 V AC to 250 V AC
Output current	
for signal "1" rated value	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	40.4.0
— up to 50 °C, max.	10 A; Current per mass
Relay outputs	0
Number of relay outputs	8
Rated supply voltage of relay coil L+ (DC)      Number of energing guides, may	24 V
Number of operating cycles, max.  Switching consoits of contacts.	mechanically 10 million, at rated load voltage 100 000
Switching capacity of contacts	2 A
<ul><li>— with inductive load, max.</li><li>— on lamp load, max.</li></ul>	30 W with DC, 200 W with AC
— with resistive load, max.	2 A
Cable length	
Odbie length	

• shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
for status of the outputs	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Relays
<ul> <li>between the channels, in groups of</li> </ul>	2
between the channels and backplane bus	1 500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	. 55 - 7 to 101 1 minute
IP degree of protection	IP20
	11 40
Standards, approvals, certificates	Ves
CE mark	Yes
CSA approval	Yes
UL approval	Yes
CULus FM energyel	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	00.00
• min.	-20 °C
• max.	60 °C
horizontal installation, min.	-20 °C
horizontal installation, max.	60 °C
vertical installation, min.	-20 °C
vertical installation, max.	50 °C
permissible temperature change	5°C to 55°C, 3°C / minute
Ambient temperature during storage/transportation	40.00
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	000 L D
Storage/transport, min.	660 hPa
Storage/transport, max.  Politica to probable.	1 080 hPa
Relative humidity	05.0/
<ul> <li>Operation at 25 ℃ without condensation, max.</li> </ul>	95 %
connection method / header	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	190 g
Togit, approx.	9
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