## **SIEMENS**

## **Data sheet**

6ES7222-1HH30-0XB0



\*\*\*Spare part\*\*\* SIMATIC S7-1200, Digital output SM 1222, 16 DO, relay 2 A

General information	
Product type designation	SM 1222, DQ 16x 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.	135 mA
Digital outputs	
• from load voltage L+, max.	11 mA/relay coil
Power loss	
Power loss, typ.	8.5 W
Digital outputs	
Number of digital outputs	16
• in groups of	1
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" 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.	10 A; Current per mass
Relay outputs	
<ul> <li>Number of relay outputs</li> </ul>	16
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	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	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
for status of the outputs	Yes
• for maintenance	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Relays
between the channels, in groups of	4
between the channels and backplane bus	1 500 V AC for 1 minute
Permissible potential difference	1 000 V / 10 101 T Hillington
between different circuits	750 V AC for 1 minute
Degree and class of protection	730 V AO IOI T IIIIIIIIII
	IP20
IP degree of protection Standards, approvals, certificates	11 20
CE mark	Voc
	Yes
FM approval	Yes Yes
RCM (formerly C-TICK)	tes
Ambient conditions	
Free fall	O O mar five times in more dust marriage
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	0.00
• 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	40.00
• 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	OF 0/
Operation at 25 °C without condensation, max.	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.	260 g

last modified: 3/12/2024 🖸