## **SIEMENS**

## **Data sheet**

6ES7222-1BH30-0XB0



\*\*\*Spare part\*\*\* SIMATIC S7-1200, Digital output SM 1222, 16 DO, 24 V DC, transistor 0.5 A

General information	
Product type designation	SM 1222, DQ 16x24 V DC/0.5 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.	140 mA
Power loss	
Power loss, typ.	2.5 W
Digital outputs	
Number of digital outputs	16
<ul><li>in groups of</li></ul>	1
Short-circuit protection	No; to be provided externally
Limitation of inductive shutdown voltage to	typ. (L+) -48 V
Switching capacity of the outputs	
<ul> <li>with resistive load, max.</li> </ul>	0.5 A
on lamp load, max.	5 W
Output voltage	
<ul> <li>Rated value (DC)</li> </ul>	24 V
• for signal "0", max.	0.1 V; with 10 kOhm load
• for signal "1", min.	20 V DC
Output current	
for signal "1" rated value	0.5 A
• for signal "0" residual current, max.	10 μΑ
Output delay with resistive load	
• "0" to "1", max.	50 µs
• "1" to "0", max.	200 μs
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max.	8 A; Current per mass
Relay outputs	
Switching capacity of contacts	
— with inductive load, max.	0.5 A
— on lamp load, max.	5 W
— with resistive load, max.	0.5 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		
<ul> <li>between the channels, in groups of</li> </ul>	1	
between the channels and backplane bus	500 V AC	
Degree and class of protection		
IP degree of protection	IP20	
Standards, approvals, certificates		
CE mark	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	
<ul> <li>horizontal installation, min.</li> </ul>	0°C	
<ul> <li>horizontal installation, max.</li> </ul>	55 °C	
<ul> <li>vertical installation, min.</li> </ul>	0 °C	
<ul> <li>vertical installation, max.</li> </ul>	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	45 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.		

last modified: 3/12/2024 🖸