## SIEMENS

## Data sheet

## 6ES7222-1BH32-0XB0



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	
• in groups of	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	
<ul> <li>on lamp load, max.</li> </ul>	5 W	
Output voltage		
<ul> <li>Rated value (DC)</li> </ul>	24 V	
<ul> <li>for signal "0", max.</li> </ul>	0.1 V; with 10 kOhm load	
● for signal "1", min.	20 V DC	
Output current		
<ul> <li>for signal "1" rated value</li> </ul>	0.5 A	
<ul> <li>for signal "0" residual current, max.</li> </ul>	10 µA	
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	500 m	
<ul> <li>shielded, max.</li> </ul>	500 m	

• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
<ul> <li>for status of the outputs</li> </ul>	Yes
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels, in groups of</li> </ul>	1
<ul> <li>between the channels and backplane bus</li> </ul>	500 V AC
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
<ul> <li>Fall height, max.</li> </ul>	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	0° 00
<ul> <li>horizontal installation, min.</li> </ul>	-20 °C
<ul> <li>horizontal installation, max.</li> </ul>	0° 00
<ul> <li>vertical installation, min.</li> </ul>	-20 °C
<ul> <li>vertical installation, max.</li> </ul>	50 °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	222 1 5
Storage/transport, min.	660 hPa
Storage/transport, max.     Relative humidity	1 080 hPa
• Operation at 25 °C without condensation, max.	95 %
Connection method	
	Yes
required front connector	res
Mechanics/material	
Enclosure material (front) <ul> <li>Plastic</li> </ul>	Von
	Yes
Dimensions	45 mm
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	220 a
Weight, approx.	220 g
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