## **SIEMENS**

## **Data sheet**

6ES7222-1BF32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 8 DO, 24 V DC, transistor 0.5 A

Product type designation	SM 1222, DQ 8x24 V DC/0.5 A	
Supply voltage	OW 1222, DQ 0X24 V DO/0.5 A	
	20.4 \	
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
nput current		
from backplane bus 5 V DC, max.	120 mA	
Power loss		
Power loss, typ.	1.5 W	
Digital outputs		
Number of digital outputs	8	
• 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	
● for signal "0", max.	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 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.	4 A; Current per mass	
Relay outputs		
Switching capacity of contacts		
<ul><li>— with inductive load, max.</li></ul>	0.5 A	
— on lamp load, max.	5 W	
— with resistive load, max.	0.5 A	
Cable length		
<ul><li>shielded, max.</li></ul>	500 m	

abialded	450	
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		
<ul> <li>between the channels, in groups of</li> </ul>	1	
<ul> <li>between the channels and backplane bus</li> </ul>	500 V AC	
Degree and class of protection		
IP degree of protection	IP20	
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	
	Yes	
Marine approval	Tes	
Ambient conditions		
Free fall		
• Fall height, max.	0.3 m; five times, in product package	
Ambient temperature during operation		
• min.	-20 °C	
• max.	60 °C	
<ul> <li>horizontal installation, min.</li> </ul>	-20 °C	
<ul> <li>horizontal installation, max.</li> </ul>	60 °C	
<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		
<ul> <li>Storage/transport, min.</li> </ul>	660 hPa	
Storage/transport, max.	1 080 hPa	
Relative humidity		
<ul> <li>Operation at 25 ℃ without condensation, max.</li> </ul>	95 %	
Connection method		
required front connector	Yes	
Mechanics/material		
Enclosure material (front)	Von	
Plastic	Yes	
Dimensions		
Width	45 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	180 g	
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