## SIEMENS

## Data sheet

## 6ES7222-1BH32-1XB0



SIMATIC S7-1200, Digital output SM 1222, 16 DO, 24 V DC, sourcing (Sinking Output), NPN transistor 0.5 A

General information	
Product type designation	SM 1222, DO 16x 24 V DC/0.5 A Sink
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	20.0 V
from backplane bus 5 V DC, max.	140 mA
Power loss	ביוו עדו
Power loss, typ.	2.5 W
Digital outputs	2.5 W
Number of digital outputs	16
	1
• in groups of	Yes
Current-sinking Short circuit protection	
Short-circuit protection	No; to be provided externally
Limitation of inductive shutdown voltage to Switching capacity of the outputs	Typ 45 V
with resistive load, max.	0.5 A
	5 W
on lamp load, max.	5 W
Output voltage	24 V
Rated value (DC)	
• for signal "0", max.	L+ minus 0.75 V DC with 10k Load 0.5 V
• for signal "1", min.	0,5 V
Output current	0.5.4
• for signal "1" rated value	0.5 A
for signal "0" residual current, max.	75 μΑ
Output delay with resistive load	20.00
• "0" to "1", max.	20 µs
• "1" to "0", max.	350 µs
Total current of the outputs (per group)	
horizontal installation	8 A: Current nor mace
— up to 50 °C, max.	8 A; Current per mass
Cable length	500 m
• 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, in groups of	1
between the channels and backplane bus	500 V AC
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	1 20
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	
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
<ul> <li>Storage/transport, max.</li> </ul>	1 080 hPa
Relative humidity	
<ul> <li>Operation at 25 °C without condensation, max.</li> </ul>	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.	220 g

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