## **SIEMENS**

Product data sheet 6ES7222-1BH32-0XB0

SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 16 DO, 24V DC, TRANSISTOR 0.5A

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 losses		
Power loss, typ.	2.5 W	
Digital inputs		
Number of digital inputs	0	
Digital outputs		
Number of digital outputs	16	
In groups of	1	
Product function / at the digital outputs / short-circuit protection	No	
Short-circuit protection	No ; to be provided externally	
Limitation of inductive shutdown voltage to	typ. (L+) -48 V	
Switching capacity of the outputs		
with resistive load, max.	0.5 A	
on lamp load, max.	5 W	
Output voltage		
Rated value (DC)	24 V	
for signal "0", max.	0.1 V ; with 10 kOhm load	
for signal "1", min.	20 V DC	
Output ourrent		
Output current		
for signal "1" rated value	0.5 A	
	0.5 A 10 μA	
for signal "1" rated value		
for signal "1" rated value for signal "0" residual current, max.		
for signal "1" rated value  for signal "0" residual current, max.  Output delay with resistive load	10 μΑ	
for signal "1" rated value  for signal "0" residual current, max.  Output delay with resistive load  "0" to "1", max.	10 μA 50 μs	

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	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
Monitoring the supply voltage	Yes
Diagnostics indication LED	
For status of the outputs	Yes
for maintenance	Yes
Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels, in groups of	1
between the channels and the backplane bus	500 V AC
Degree and class of protection	
IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL	Yes
cULus	Yes
с-тіск	Yes
FM approval	Yes
Marine approval	Yes
Climatic and mechanical conditions for storage and transport	
Climatic conditions for storage and transport	
Free fall	
Drop height, max. (in packaging)	0.3 m; five times, in dispatch package

Temperature	
Permissible temperature range	-40 °C to +70 °C
Air pressure acc. to IEC 60068-2-13	
Permissible air pressure	1080 to 660 hPa
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Permissible temperature range	-20 °C to +60 °C horizontal mounting -20 °C to 50 °C vertical mounting 95% humidity, non-condensing
Min.	-20 °C
max.	60 °C
Permissible temperature change	5°C to 55°C, 3°C / minute
Connection method	
required front connector	Yes
Mechanics/material	
Type of housing (front)	
Plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	220 g
Status	Aug 24, 2013