## **SIEMENS**

## Data sheet

6ES7222-1HF32-0XB0

SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 8 DO, RELAY 2A



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.	120 mA
Digital inputs	
• from load voltage L+ (without load), max.	11 mA/relay coil
Power losses	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	0
Digital outputs	
Digital outputs  Number of digital outputs	8
	8 2
Number of digital outputs	
Number of digital outputs  • In groups of	2
Number of digital outputs  • In groups of short-circuit protection	2
Number of digital outputs  • In groups of short-circuit protection Switching capacity of the outputs	No; to be provided externally
Number of digital outputs  In groups of short-circuit protection Switching capacity of the outputs  with resistive load, max.	No; to be provided externally
Number of digital outputs  • In groups of short-circuit protection Switching capacity of the outputs  • with resistive load, max.  • on lamp load, max.	No; to be provided externally
Number of digital outputs  • In groups of short-circuit protection Switching capacity of the outputs  • with resistive load, max.  • on lamp load, max.  Output voltage	No; to be provided externally  2 A  30 W with DC, 200 W with AC
Number of digital outputs  • In groups of  short-circuit protection  Switching capacity of the outputs  • with resistive load, max.  • on lamp load, max.  Output voltage  • Rated value (DC)	No; to be provided externally  2 A  30 W with DC, 200 W with AC  5 V DC to 30 V DC

Output delay with resistive load	
• "0" to "1", max.	10 ms
• "1" to "0", max.	10 ms
Aggregate current of outputs (per group)	
horizontal installation	
— up to 50 °C, max.	10 A; Current per mass
Relay outputs	10 A, Guirent per mass
Number of relay outputs	8
Rated input voltage of relay coil L+ (DC)	24 V
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100,000
Switching capacity of contacts	mediamenty to million, at rated load voltage 100,000
	2 A
— with inductive load, max.	30 W with DC, 200 W with AC
— on lamp load, max.	2 A
— with resistive load, max.	2 A
Cable length	500 m
• shielded, max.	150 m
• Unshielded, max.	150 M
Interrupts/diagnostics/status information	
Alarms	
• Alarms	Yes
Diagnostic alarm	Yes
Diagnostic messages	
<ul> <li>Diagnostic functions</li> </ul>	Yes
<ul> <li>Monitoring the supply voltage</li> </ul>	Yes
Diagnostics indication LED	
<ul> <li>For status of the outputs</li> </ul>	Yes
• for maintenance	Yes
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes
Potential separation digital outputs	
• between the channels	Relays
<ul> <li>between the channels, in groups of</li> </ul>	2
• between the channels and the backplane bus	1500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
Degree of protection to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes

UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Marine approval	
Marine approval	Yes
- Maine approval	
Ambient conditions	
Free fall	
<ul><li>Drop height, max. (in packaging)</li></ul>	0.3 m; five times, in dispatch package
Ambient temperature in operation	
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
<ul> <li>Permissible temperature change</li> </ul>	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	
Permissible range (without condensation) at 25	95 %
°C	
Connection method	
required front connector	Yes
Mechanics/material	
Type of housing (front)	v
• plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weight, approx.	190 g
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