Data sheet

6ES7222-1HF32-0XB0

SIMATIC S7-1200, Digital output SM 1222, 8 DO, relay 2 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.	120 mA	
Digital outputs		
• from load voltage L+, max.	11 mA/relay coil	
Power loss		
Power loss, typ.	4.5 W	
Digital outputs		
Number of digital outputs	8	
• in groups of	2	
Short-circuit protection	No; to be provided externally	
Switching capacity of the outputs		
<ul><li>with resistive load, max.</li></ul>	2 A	
• on lamp load, max.	30 W with DC, 200 W with AC	
Output voltage		

<ul> <li>Rated value (AC)</li> <li>Output current</li> <li>for signal "1" rated value</li> <li>Output delay with resistive load</li> </ul>	
• for signal "1" rated value 2 A	
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Output delay with resistive load	
• "0" to "1", max.	
• "1" to "0", max.	
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max. 10 A; Current per mass	
Relay outputs	
Number of relay outputs	
• Rated supply 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	
— with inductive load, max. 2 A	
— on lamp load, max. 30 W with DC, 200 W with AC	
— with resistive load, max.	
Cable length	
• shielded, max. 500 m	
• unshielded, max.	
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 Relays	
• between the channels, in groups of	
• between the channels and 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 acc. 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	Yes
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
• vertical installation, min.	-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	
Storage/transport, min.	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.	190 g
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