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 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		
• with resistive load, max.	2 A	
• on lamp load, max.	30 W with DC, 200 W with AC	
Output voltage		

Rated value (AC) S V AC to 250 V AC Output current for signal "1" permissible range, max. 2 A Output delay with resistive load * "0" to "1", max. * "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 "C, max. Relay outputs * Number of relay outputs * Number of relay outputs * Rated supply voltage of relay coil L+ (DC) * Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. — with resistive load, max. — with resistive load, max. — where the channels of the outputs * shelded, max. * unshielded, max. • unshielded, max. • Understatus of the outputs Potential separation Potential separation Potential separation Potential separation digital outputs Permissible potential difference between the channels, in groups of 2 • between the channels, in groups of 2 • between the channels, or propositic later of the control of the	• Rated value (DC)	5 V DC to 30 V DC
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Degree of protection acc. to EN 60529	Interrupts/diagnostics/status information Alarms • Diagnostic alarm Diagnostics indication LED • for status of the outputs Potential separation Potential separation digital outputs • between the channels • between the channels, in groups of • between the channels and backplane bus	Yes Relays 2
Degree of protection acc. to EN 60529	Interrupts/diagnostics/status information Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs Potential separation Potential separation digital outputs between the channels between the channels, in groups of between the channels and backplane bus Permissible potential difference	Relays 2 1500 V AC for 1 minute
Standards, approvals, certificates CE mark CSA approval Yes Yes	Interrupts/diagnostics/status information Alarms Diagnostic alarm Diagnostics indication LED for status of the outputs Potential separation Potential separation digital outputs between the channels between the channels, in groups of between the channels and backplane bus Permissible potential difference between different circuits	Relays 2 1500 V AC for 1 minute
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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
• horizontal installation, min.	-20 °C
 horizontal installation, max. 	60 °C
• vertical installation, min.	-20 °C
• vertical installation, max.	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
Storage/transport, max.	1 080 hPa
Relative humidity	
 Operation at 25 °C without condensation, max. 	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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