SIEMENS

Product data sheet

6ES7222-1HH32-0XB0



SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 16 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. | 135 mA |
| Digital inputs | |
| from load voltage L+ (without load), max. | 11 mA/relay coil |
| Power losses | |
| Power loss, typ. | 8.5 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 |
| Switching capacity of the outputs | |
| with resistive load, max. | 2 A |

| on lamp load, max. | 30 W with DC, 200 W with AC | |
|--|--|--|
| Output current | | |
| for signal "1" permissible range, max. | 2 A | |
| Output delay with resistive load | 27. | |
| "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 | 1971, 9411911 por mass | |
| Number of relay outputs | 16 | |
| 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 | | |
| with inductive load, max. | 2 A | |
| on lamp load, max. | 30 W with DC, 200 W with AC | |
| with resistive load, max. | 2 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 | | |
| Diagnostic functions | Yes | |
| Monitoring the supply voltage | Yes Yes | |
| · | | |
| Monitoring the supply voltage | | |
| Monitoring the supply voltage Diagnostics indication LED | Yes | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs | Yes | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs for maintenance | Yes Yes Yes | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs for maintenance Status indicator digital output (green) | Yes Yes Yes | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs for maintenance Status indicator digital output (green) Galvanic isolation | Yes Yes Yes | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs for maintenance Status indicator digital output (green) Galvanic isolation Galvanic isolation digital outputs between the channels between the channels, in groups of | Yes Yes Yes Yes Relay 4 | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs for maintenance Status indicator digital output (green) Galvanic isolation Galvanic isolation digital outputs between the channels between the channels, in groups of between the channels and the backplane bus | Yes Yes Yes Yes Relay | |
| Monitoring the supply voltage Diagnostics indication LED For status of the outputs for maintenance Status indicator digital output (green) Galvanic isolation Galvanic isolation digital outputs between the channels between the channels, in groups of | Yes Yes Yes Yes Relay 4 | |

| 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. | 260 g | |
| Status | Aug 20, 2013 | |