SIEMENS

Data sheet

6AG1222-1HH32-2XB0



SIPLUS S7-1200 SM 1222 16DQ RLY based on 6ES7222-1HH32-0XB0 with conformal coating, -40...+70 °C, start up -25 °C, digital output 16 DQ, relay 2 A

| Figure | similar |
|--------|---------|
|--------|---------|

| General information | |
|---|--|
| Product type designation | SM 1222, DQ 16x 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. | 135 mA |
| Digital outputs | |
| from load voltage L+, max. | 11 mA/relay coil |
| Power loss | |
| Power loss, typ. | 8.5 W |
| Digital outputs | |
| Number of digital outputs | 16 |
| • in groups of | 1 |
| 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 (DC) | 5 V DC to 30 V DC |
| Rated value (AC) | 5 V AC to 250 V AC |
| Output current | |
| for signal "1" rated value | 2 A |
| Output delay with resistive load | |
| ● "0" to "1", max. | 10 ms |
| • "1" to "0", max. | 10 ms |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 50 °C, max. | 10 A; Current per mass |
| Relay outputs | 40 |
| Number of relay outputs | 16 |
| 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 | 2 A |
| — with inductive load, max. | |
| — on lamp load, max. — with resistive load, max. | 30 W with DC, 200 W with AC 2 A |
| Cable length | |
| Cable length | |

| • unshielded, max. 500 m Interrupts/diagnostic status information Yes Alarms • Diagnostic alarm Yes • Diagnostic alarm Yes Diagnostic indication LED • Yes • for status of the outputs Yes • for status of the outputs Yes • for status of the outputs Yes • Potential separation Petential separation digital outputs • between the channels, in groups of 4 • between the channels in groups of 4 • between different circuits 750 V AC for 1 minute Portical sof protection IP20 Ambient conditions IP20 Free fail • Cass of protection • max. 0.3 m; five times, in product package Anbient temperature during operation -40 °C; = Tmin (inci. condensation/frost); start-up @ -25 °C < |
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| 60068-2-38, max. condensation conditions) |
| Resistance |
| Coolants and lubricants |
| — Resistant to commercially available coolants and lubricants Yes; Incl. diesel and oil droplets in the air |
| Use in stationary industrial systems — to biologically active substances according to Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of |
| to biologically active substances according to EN 60721-3-3 to chemically active substances according to Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 |
| EN 60721-3-3 (severity degree 3); * — to mechanically active substances according to — to mechanically active substances according to — to mechanically active substances according to |
| EN 60721-3-3 Use on ships/at sea |
| — to biologically active substances according to Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 |
| EN 60721-3-6 Tes, Class 6D2 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D2 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D3 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D3 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D3 field and fungal spores (excluding faulta), class 6D3 field and fungal spores (excluding faulta), class 6D3 frequest |
| EN 60721-3-6 (severity degree 3); * — to mechanically active substances according to — to mechanically active substances according to |
| EN 60721-3-6 Usage in industrial process technology |
| — Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene) |
| Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible |

| 71.04 | level LC3 (salt spray) and level LB3 (oil) |
|---|--|
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Conformal coating | |
| Coatings for printed circuit board assemblies acc. to EN 61086 | Yes; Class 2 for high reliability |
| Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life |
| Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A |
| connection method / header | |
| required front connector | Yes |
| Mechanics/material | |
| Enclosure material (front) | |
| Plastic | Yes |
| Dimensions | |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 260 g |
| | |

last modified:

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