

SIMATIC S7, digital output SM 322, isolated, 4 DO, 24 V DC, 10 mA, 1 x 20-pole, for signals from the hazardous area, diagnostics-capable, PTB tested



Figure similar

| Supply voltage | |
|---|---|
| Load voltage L+ | |
| • Rated value (DC) | 24 V |
| • Reverse polarity protection | Yes |
| Input current | |
| from load voltage L+ (without load), max. | 160 mA |
| from backplane bus 5 V DC, max. | 85 mA |
| Power loss | |
| Power loss, typ. | 3 W |
| Digital outputs | |
| Number of digital outputs | 4 |
| Short-circuit protection | Yes; Electronic |
| • Response threshold, typ. | Output current with short-circuit protection, min. 10 mA + 10 % |
| Load resistance range | |
| • upper limit | 390 Ω; Two-wire connection |
| Output voltage | |

| | |
|---|--|
| • Rated value (DC) | 24 V |
| Output current | |
| • for signal "1" permissible range for 0 to 60 °C, max. | 10 mA; ±10 % |
| Switching frequency | |
| • with resistive load, max. | 100 Hz |
| Cable length | |
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Diagnostic messages | |
| • Diagnostic information readable | Yes |
| • Short-circuit | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| • Status indicator digital output (green) | Yes |
| • Channel fault indicator F (red) | Yes |
| Ex(i) characteristics | |
| Module for Ex(i) protection | Yes |
| Maximum values of output circuits (per channel) | |
| • Co (permissible external capacity), max. | 90 nF |
| • Io (short-circuit current), max. | 70 mA |
| • Lo (permissible external inductivity), max. | 6.7 mH |
| • Po (power of load), max. | 440 mW |
| • Uo (output no-load voltage), max. | 25.2 V |
| Potential separation | |
| Potential separation digital outputs | |
| • Potential separation digital outputs | Yes |
| • between the channels, in groups of | 1 |
| Standards, approvals, certificates | |
| Use in hazardous areas | |
| • Type of protection acc. to EN 50020 (CENELEC) | [EEx ib] IIC |
| • Type of protection acc. to FM | Class I, Division 2, Group A, B, C, D T4 |
| • Test number PTB | Ex-96.D.2093X |
| Ambient conditions | |
| Ambient temperature during operation | |
| • max. | 60 °C |
| Connection method | |
| required front connector | 20-pin |

Weights

Weight, approx.

230 g

last modified:

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