

SIMATIC DP, electronics module for ET200iSP, 4 DQ, 25.5 V DC/22 mA, "L"-shutdown



Figure similar

| Input current | |
|---|--------|
| Current consumption, typ. | 380 mA |
| from load voltage L+ (without load), max. | 400 mA |

| Power loss | |
|------------------|-------|
| Power loss, typ. | 2.8 W |

| Address area | |
|----------------------------------|--------|
| Address space per module | |
| • Address space per module, max. | 2 byte |

| Digital outputs | |
|-------------------------------|---|
| Number of digital outputs | 4; additionally 1 intrinsically-safe input for L shutdown |
| Short-circuit protection | Yes |
| No-load voltage U_{ao} (DC) | 25.5 V |
| Internal resistor R_i | 260 Ω |

| Trend key points E | |
|----------------------|--------|
| • Voltage U_e (DC) | 19.8 V |
| • Current I_e | 22 mA |

| | |
|--|---|
| Output current | |
| • for signal "1" rated value | 0.022 A |
| Output delay with resistive load | |
| • "0" to "1", max. | 2 ms |
| • "1" to "0", max. | 1.5 ms |
| Parallel switching of two outputs | |
| • for uprating | No |
| Switching frequency | |
| • with resistive load, max. | 100 Hz |
| • with inductive load, max. | 2 Hz |
| Cable length | |
| • shielded, max. | 500 m |
| • unshielded, max. | 500 m |
| Interrupts/diagnostics/status information | |
| Status indicator | Yes |
| Diagnostics function | Yes |
| Alarms | |
| • Diagnostic alarm | Yes; Parameterizable |
| Diagnostic messages | |
| • Diagnostic information readable | Yes |
| • Wire-break | Yes; $R > 10 \text{ kohms}$, $I < 100 \text{ }\mu\text{A}$ |
| • Short-circuit | Yes; $R < 80 \text{ ohms}$ |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| • Status indicator digital output (green) | Yes; Per channel |
| Ex(i) characteristics | |
| Maximum values of output circuits (per channel) | |
| • Co (permissible external capacity), max. | 81 nF; For IIC, 651 nF for IIB |
| • Io (short-circuit current), max. | 110 mA |
| • Lo (permissible external inductivity), max. | 1.7 mH; For IIC, 11.5 mH for IIB |
| • Po (power of load), max. | 764 mW |
| • Uo (output no-load voltage), max. | 27.9 V |
| Potential separation | |
| Potential separation digital outputs | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |
| • Between the channels and load voltage L+ | Yes |
| Permissible potential difference | |
| between different circuits | 60 V DC/30 V AC |
| Standards, approvals, certificates | |

| | |
|---|--|
| CE mark | Yes |
| Highest safety class achievable in safety mode | |
| • SIL acc. to IEC 61508 | No |
| Use in hazardous areas | |
| • Type of protection acc. to EN 50020 (CENELEC) | II 2 G (1) GD and I M2 Ex ib[ja][jaD] IIC T4; Ex ib [ja] I |
| • Type of protection acc. to KEMA | 04 ATEX 1249 |
| Dimensions | |
| Width | 30 mm |
| Height | 129 mm |
| Depth | 136.5 mm |
| Weights | |
| Weight, approx. | 255 g |
| last modified: | 11/19/2019 |