



Figure similar

SIMATIC DP, Electronics module 1F-RO 24 V DC/AC 24...230V/5A, f. ET200S, 30 mm overall width, 1 relay output (2 NO) Output current 5 A, load voltage 24 V DC and 24...230 V AC, Can be used up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), if control takes place F-DO (e.g. 6ES7138-4FB02-0AB0) F-DQ

| Supply voltage | |
|---|--|
| Load voltage L+ | |
| • Rated value (DC) | 24 V; Supply via fail-safe output, e.g. of an F-DO |
| Input current | |
| from load voltage L+ (without load), max. | 100 mA; from control voltage |
| from backplane bus 3.3 V DC, max. | 10 mA |
| Power loss | |
| Power loss, typ. | 2.1 W |
| Address area | |
| Address space per module | |
| • Address space per module, max. | 1 byte |
| • with packing | 2 bit |
| Digital outputs | |
| Type of digital output | Relays |
| Number of digital outputs | 1 |
| Short-circuit protection | No |
| Controlling a digital input | Yes |
| Output current | |
| • for signal "1" rated value | 5 A |
| • for signal "1" minimum load current | 5 mA |
| Switching frequency | |
| • with resistive load, max. | 2 Hz |
| • with inductive load, max. | 0.1 Hz |
| Total current of the outputs | |
| • Current per module, max. | 8 A |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 40 °C, max. | 8 A |
| — up to 50 °C, max. | 6 A |
| — up to 60 °C, max. | 5 A; up to max. 24.8 V |
| vertical installation | |
| — up to 40 °C, max. | 6 A |
| Relay outputs | |
| Switching capacity of contacts | |
| — Thermal continuous current, max. | 5 A |
| Cable length | |
| • shielded, max. | 200 m |
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |

• Status indicator digital output (green) Yes

Potential separation

Potential separation digital outputs

- between the channels Yes
- between the channels and backplane bus Yes
- Between the channels and load voltage L+ Yes; between channels and control voltage

Standards, approvals, certificates

Highest safety class achievable in safety mode

- acc. to EN 954 4
- Performance level according to ISO 13849-1 e
- SIL acc. to IEC 61508 Up to SIL 3

Dimensions

Width 30 mm
Height 81 mm
Depth 52 mm

Weights

Weight, approx. 90 g

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