

Spare part SIMATIC DP, Electronics module f. ET200S, 4 F-DO PROFIsafe, 24 V DC/2 A, 30 mm overall width, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), can also be used in PROFINET configuration with IM 151-3 HF

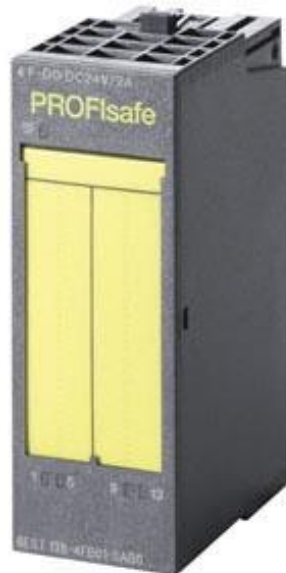


Figure similar

| Supply voltage | |
|---|------------------|
| Load voltage L+ | |
| • Rated value (DC) | 24 V |
| • Reverse polarity protection | No |
| Input current | |
| From load voltage L+ (no load), typ. | 100 mA |
| from backplane bus 3.3 V DC, max. | 28 mA |
| Power loss | |
| Power loss, typ. | 3.5 W |
| Digital outputs | |
| Number of digital outputs | 4 |
| Short-circuit protection | Yes |
| Limitation of inductive shutdown voltage to | Typ. (2L+) -47 V |
| Controlling a digital input | No |
| Switching capacity of the outputs | |
| • on lamp load, max. | 10 W |

| | |
|--|---|
| Load resistance range | |
| • lower limit | 12 Ω |
| • upper limit | 1 kΩ |
| Output voltage | |
| • for signal "1", min. | L+ (-2,0 V), current sourcing switch: L+ (-1,5 V), voltage drop on current sinking switch: max. 0.5 V |
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" permissible range, min. | 20 mA |
| • for signal "1" permissible range, max. | 2.4 A |
| • for signal "0" residual current, max. | 0.5 mA; Current-sourcing: max. 0.5 mA; Current sinking: max. 4 mA |
| Parallel switching of two outputs | |
| • for uprating | No |
| • for redundant control of a load | No |
| Switching frequency | |
| • with resistive load, max. | 30 Hz |
| • with inductive load, max. | 0.1 Hz |
| • on lamp load, max. | 10 Hz |
| Total current of the outputs | |
| • Current per module, max. | 6 A |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 40 °C, max. | 6 A |
| — up to 55 °C, max. | 5 A |
| — up to 60 °C, max. | 4 A |
| vertical installation | |
| — up to 40 °C, max. | 4 A |
| Cable length | |
| • shielded, max. | 200 m |
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostic functions | Yes |
| Diagnostic messages | |
| • Wire-break | Yes |
| • Short-circuit | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| • Status indicator digital output (green) | Yes |
| Potential separation | |
| Potential separation digital outputs | |

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

No
Yes
No

Isolation

Isolation tested with 500 V DC

tested with

- Channels against backplane bus and load voltage L+ 1500 V AC

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 SIL 3

Dimensions

Width 30 mm

Height 81 mm

Depth 52 mm

Weights

Weight, approx. 85 g

last modified: 02/27/2018