



SIMATIC DP, ET 200ECO PN, 8 DO 24 V DC/0.5 A; 4xM12, Duplicate assignment, 1 load voltage supply DO; Degree of protection IP67

Figure similar

| General information | |
|--|-----------------------|
| Vendor identification (VendorID) | 002AH |
| Device identifier (DeviceID) | 0306H |
| Supply voltage | |
| Rated value (DC) | 24 V |
| Reverse polarity protection | Yes |
| power supply according to NEC Class 2 required | Yes |
| Load voltage 1L+ | |
| • Rated value (DC) | 24 V |
| • permissible range, lower limit (DC) | 20.4 V |
| • permissible range, upper limit (DC) | 28.8 V |
| • Reverse polarity protection | Yes |
| Load voltage 2L+ | |
| • Rated value (DC) | 24 V |
| • permissible range, lower limit (DC) | 20.4 V |
| • permissible range, upper limit (DC) | 28.8 V |
| • Reverse polarity protection | Yes |
| Input current | |
| Current consumption, typ. | 100 mA |
| from supply voltage 1L+, max. | 4 A |
| from load voltage 1L+ (unswitched voltage) | 100 mA |
| from load voltage 2L+, max. | 4 A |
| Power loss | |
| Power loss, typ. | 3 W |
| Digital outputs | |
| Number of digital outputs | 8 |
| • in groups of | 8 |
| Short-circuit protection | Yes |
| • Response threshold, typ. | 0.7 A |
| Limitation of inductive shutdown voltage to | Typ. (L1+, L2+) -47 V |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| • on lamp load, max. | 5 W |
| Output current | |
| • for signal "1" rated value | 0.5 A |
| • for signal "0" residual current, max. | 1.5 mA |
| Parallel switching of two outputs | |
| • for uprating | No |
| • for redundant control of a load | Yes |

| | |
|---|----------------------------------|
| Switching frequency | |
| • with resistive load, max. | 100 Hz |
| • with inductive load, max. | 0.5 Hz |
| • on lamp load, max. | 1 Hz |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 60 °C, max. | 4 A |
| Cable length | |
| • unshielded, max. | 30 m |
| Interfaces | |
| Transmission procedure | 100BASE-TX |
| Number of PROFINET interfaces | 1 |
| 1. Interface | |
| Interface types | |
| • integrated switch | Yes |
| Interface types | |
| M12 port | |
| • Autonegotiation | Yes |
| • Autocrossing | Yes |
| • Transmission rate, max. | 100 Mbit/s |
| Protocols | |
| Supports protocol for PROFINET IO | Yes |
| PROFINET CBA | No |
| PROFIsafe | No |
| PROFINET IO Device | |
| Services | |
| — IRT with the option "high flexibility" | Yes |
| — Prioritized startup | Yes |
| Redundancy mode | |
| Media redundancy | |
| — MRP | Yes |
| Open IE communication | |
| • TCP/IP | No |
| • SNMP | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| • ping | Yes |
| • ARP | Yes |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Alarms | |
| • Diagnostic alarm | Yes |
| Diagnoses | |
| • Diagnostic information readable | Yes |
| • Monitoring the supply voltage | Yes; green "ON" LED |
| • Wire-break in actuator cable | Yes |
| • Short-circuit | Yes |
| • Group error | Yes; Red/yellow "SF/MT" LED |
| Potential separation | |
| between the load voltages | Yes |
| between load voltage and all other switching components | No |
| between Ethernet and electronics | Yes |
| Potential separation channels | |
| • between the channels | No |
| Isolation | |
| tested with | |
| • 24 V DC circuits | 707 V DC (type test) |
| • Test voltage for interface, rms value [Vrms] | 1 500 V; According to IEEE 802.3 |
| Degree and class of protection | |
| IP degree of protection | IP65/67 |

| Standards, approvals, certificates | |
|--|--|
| Suitable for safety-related tripping of standard modules | Yes |
| Highest safety class achievable for safety-related tripping of standard modules | |
| <ul style="list-style-type: none"> • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown | PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 |
| connection method | |
| Design of electrical connection | 4/5-pin M12 circular connectors |
| Dimensions | |
| Width | 30 mm |
| Height | 200 mm |
| Depth | 49 mm |
| Weights | |
| Weight, approx. | 550 g |

last modified: 8/16/2023 