



SIMATIC DP, ET 200ECO PN, 8 DO 24V DC/1,3A; 8 X M12, DEGREE OF PROTECTION IP67

Figure similar

| General information                        |        |
|--|--------|
| Vendor identification (VendorID)           | 002AH  |
| Device identifier (DeviceID)               | 0306H  |
| Supply voltage                             |        |
| 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                              |        |
| from load voltage 1L+ (unswitched voltage) | 4 A    |
| from load voltage 2L+, max.                | 4 A    |
| Power losses                               |        |
| Power loss, typ.                           | 5.5 W  |
| Digital outputs                            |        |
| Number of digital outputs                  | 8      |
| • In groups of                             | 4      |
| short-circuit protection                   | Yes    |

|  |                       |
|--|-----------------------|
| • Response threshold, typ.                         | 1,8 A                 |
| Limitation of inductive shutdown voltage to        | Typ. (L1+, L2+) -47 V |
| Controlling a digital input                        | Yes                   |
| <b>Switching capacity of the outputs</b>           |                       |
| • on lamp load, max.                               | 5 W                   |
| <b>Output current</b>                              |                       |
| • for signal "1" rated value                       | 1.3 A; Maximum        |
| • for signal "0" residual current, max.            | 1.5 mA                |
| <b>Parallel switching of 2 outputs</b>             |                       |
| • for increased power                              | No                    |
| • for redundant control of a load                  | Yes                   |
| <b>Switching frequency</b>                         |                       |
| • with resistive load, max.                        | 100 Hz                |
| • with inductive load, max.                        | 0.5 Hz                |
| • on lamp load, max.                               | 1 Hz                  |
| <b>Aggregate current of outputs (per group)</b>    |                       |
| all mounting positions                             |                       |
| — up to 60 °C, max.                                | 3.9 A                 |
| <b>Cable length</b>                                |                       |
| • Unshielded, max.                                 | 30 m                  |
| <b>Interfaces</b>                                  |                       |
| Transmission procedure                             | 100BASE-TX            |
| Transmission rate, max.                            | 100 Mbit/s            |
| <b>PROFINET IO</b>                                 |                       |
| • Number of PROFINET interfaces                    | 1                     |
| • Autocrossing                                     | Yes                   |
| • Automatic detection of transmission speed        | Yes                   |
| • Integrated switch                                | Yes                   |
| <b>PROFINET IO Device</b>                          |                       |
| — IRT with the option "high flexibility" supported | Yes                   |
| — Prioritized startup                              | Yes                   |
| <b>Protocols</b>                                   |                       |
| PROFINET IO  | Yes                   |
| PROFINET CBA                                       | No                    |
| Supports protocol for PROFI-safe                   | No                    |
| <b>Protocols (Ethernet)</b>                        |                       |
| • SNMP   | Yes                   |
| • DCP  | Yes                   |
| • LLDP   | Yes                   |
| • ping   | Yes                   |

|   |                                  |
|---|----------------------------------|
| • ARP   | Yes                              |
| <b>Interrupts/diagnostics/status information</b>        |                                  |
| Status indicator  | Yes; Green LED                   |
| <b>Alarms</b>   |                                  |
| • Diagnostic alarm                                      | Yes                              |
| <b>Diagnostic messages</b>                              |                                  |
| • Diagnostic functions                                  | Yes                              |
| • 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      |
| <b>Galvanic isolation</b>                               |                                  |
| between the load voltages                               | Yes                              |
| between load voltage and all other switching components | No                               |
| between Ethernet and electronics                        | Yes                              |
| <b>Galvanic isolation digital outputs</b>               |                                  |
| • between the channels                                  | No                               |
| <b>Permissible potential difference</b>                 |                                  |
| between different circuits                              | 75V DC/60V AC                    |
| <b>Isolation</b>  |                                  |
| <b>tested with</b>                                      |                                  |
| • 24 V DC circuits                                      | 500 V                            |
| • Interface   | 1 500 V; According to IEEE 802.3 |
| <b>Degree and class of protection</b>                   |                                  |
| Degree of protection to EN 60529                        |                                  |
| • IP65  | Yes                              |
| • IP66  | Yes                              |
| • IP67  | Yes                              |
| <b>Connection method</b>                                |                                  |
| M12   | Yes                              |
| <b>Dimensions</b>                                       |                                  |
| Width   | 60 mm                            |
| Height  | 175 mm                           |
| Depth   | 49 mm                            |
| <b>Weights</b>  |                                  |
| Weight (without packaging)                              | 910 g                            |

last modified:

12.03.2015