

SIMATIC DP, ET 200ECO PN, 8 DO DC 24V/1,3A; 4 X M12,  
DOUBLE-ASSIGNEMENT, DEGREE OF PROTECTION IP67;



Figure similar

| General information                                                           |        |
|-------------------------------------------------------------------------------|--------|
| Vendor identification (VendorID)                                              | 002AH  |
| Device identifier (DeviceID)                                                  | 0306H  |
| Supply voltage                                                                |        |
| 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+                                                              |        |
| <ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>            | 24 V   |
| <ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul> | Yes    |
| Input current                                                                 |        |
| Current consumption, typ.                                                     | 100 mA |
| from supply voltage 1L+, max.                                                 | 4 A    |
| from load voltage 2L+, max.                                                   | 4 A    |
| Power loss                                                                    |        |

|                                                 |                       |
|-------------------------------------------------|-----------------------|
| Power loss, typ.                                | 5.5 W                 |
| <b>Digital outputs</b>                          |                       |
| 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 two outputs</b>        |                       |
| • for uprating                                  | 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>Total current of the outputs (per group)</b> |                       |
| all mounting positions                          |                       |
| — up to 55 °C, max.                             | 3.9 A                 |
| — up to 60 °C, max.                             | 2.6 A                 |
| <b>Cable length</b>                             |                       |
| • unshielded, max.                              | 30 m                  |
| <b>Interfaces</b>                               |                       |
| Transmission procedure                          | 100BASE-TX            |
| Number of PROFINET interfaces                   | 1                     |
| <b>PROFINET IO</b>                              |                       |
| • Autocrossing                                  | Yes                   |
| • automatic detection of transmission rate      | Yes                   |
| • Transmission rate, max.                       | 100 Mbit/s            |
| • integrated switch                             | Yes                   |
| <b>PROFINET IO Device</b>                       |                       |
| — IRT with the option "high flexibility"        | Yes                   |
| — Prioritized startup                           | Yes                   |
| <b>Protocols</b>                                |                       |
| Supports protocol for PROFINET IO               | Yes                   |
| PROFINET CBA                                    | No                    |
| PROFIsafe                                       | No                    |

| Protocols (Ethernet)                                    |                                  |
|---------------------------------------------------------|----------------------------------|
| • TCP/IP                                                | No                               |
| • SNMP                                                  | Yes                              |
| • DCP                                                   | Yes                              |
| • LLDP                                                  | Yes                              |
| • ping                                                  | Yes                              |
| • ARP                                                   | Yes                              |
| Interrupts/diagnostics/status information               |                                  |
| Status indicator                                        | Yes; Green LED                   |
| Diagnostic functions                                    | Yes                              |
| Alarms                                                  |                                  |
| • Diagnostic alarm                                      | Yes                              |
| Diagnostic messages                                     |                                  |
| • 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 digital outputs                    |                                  |
| • between the channels                                  | No                               |
| Isolation                                               |                                  |
| tested with                                             |                                  |
| • 24 V DC circuits                                      | 707 V DC (type test)             |
| • Interface                                             | 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-oriented group deactivation         | Yes                              |
| Highest safety class achievable in safety mode          |                                  |
| • Performance level according to ISO 13849-1            | d                                |
| • SIL acc. to IEC 61508                                 | 2                                |
| Connection method                                       |                                  |
| Design of electrical connection                         | 4/5-pin M12 circular connectors  |
| Dimensions                                              |                                  |
| Width                                                   | 30 mm                            |

|                            |            |
|----------------------------|------------|
| Height                     | 200 mm     |
| Depth                      | 49 mm      |
| <b>Weights</b>             |            |
| Weight (without packaging) | 550 g      |
| <b>last modified:</b>      | 03/09/2017 |