



\*\*\* spare part \*\*\* 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                         |
| PROFINET IO Device                                      |                             |
| Services                                                |                             |
| — IRT with the option "high flexibility"                | Yes                         |
| — Prioritized startup                                   | 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                          |
| 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                                                                                                                                                                                                        |                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>24 V DC circuits</li> </ul>                                                                                                                                                 | 707 V DC (type test)                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Test voltage for interface, rms value [Vrms]</li> </ul>                                                                                                                     | 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"> <li>Performance level according to ISO 13849-1</li> <li>Category according to ISO 13849-1</li> <li>SIL acc. to IEC 62061</li> <li>remark on safety-oriented shutdown</li> </ul> | PL d<br>Cat. 3<br>SIL 2<br><a href="https://support.industry.siemens.com/cs/de/en/view/39198632">https://support.industry.siemens.com/cs/de/en/view/39198632</a> |
| Use in hazardous areas                                                                                                                                                                                             |                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Explosion protection category for gas</li> <li>Explosion protection category for dust</li> </ul>                                                                            | ATEX II 3G Ex nA II T4<br>ATEX II 3D Ex tc IIIC T90°C Dc                                                                                                         |
| 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                                                                                                                                                            |
| Classifications                                                                                                                                                                                                    |                                                                                                                                                                  |

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-26-04    |
| eClass | 12      | 27-24-26-04    |
| eClass | 9.1     | 27-24-26-04    |
| eClass | 9       | 27-24-26-04    |
| eClass | 8       | 27-24-26-04    |
| eClass | 7.1     | 27-24-26-04    |
| eClass | 6       | 27-24-26-04    |
| ETIM   | 10      | EC001599       |
| ETIM   | 9       | EC001599       |
| ETIM   | 8       | EC001599       |
| ETIM   | 7       | EC001599       |
| IDEA   | 4       | 3566           |
| UNSPSC | 15      | 32-15-17-05    |

#### Approvals / Certificates

| General Product Approval | Test Certificates | Maritime application |
|--------------------------|-------------------|----------------------|
|--------------------------|-------------------|----------------------|



[Type Test Certificates/Test Report](#)



| Maritime application | other | Environment |
|----------------------|-------|-------------|
|----------------------|-------|-------------|



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#### Environment



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firmations](#)

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