



\*\*\* Spare part \*\*\* SIMATIC DP, 5 electronic modules for ET 200S, 4 DI High Feature 24 V DC, 15 mm width, with param. input delay Diagnostics encoder short circuit with SF LED (group fault) 5 units per packing unit

| Supply voltage                                                  |                              |
|-----------------------------------------------------------------|------------------------------|
| Rated value (DC)                                                | 24 V; From power module      |
| Reverse polarity protection                                     | Yes                          |
| Input current                                                   |                              |
| from supply voltage L+, max.                                    | Dependent on encoder         |
| from backplane bus 3.3 V DC, max.                               | 10 mA                        |
| Encoder supply                                                  |                              |
| Type of output voltage                                          | min. L+ (-0.5 V), under load |
| Short-circuit protection                                        | Yes; Electronic              |
| Output current                                                  |                              |
| • Rated value                                                   | 500 mA                       |
| • permissible range, lower limit                                | 0 mA                         |
| • permissible range, upper limit                                | 500 mA                       |
| Power loss                                                      |                              |
| Power loss, typ.                                                | 0.7 W                        |
| Address area                                                    |                              |
| Address space per module                                        |                              |
| • Address space per module, max.                                | 1 byte                       |
| • with packing                                                  | 4 bit                        |
| Digital inputs                                                  |                              |
| Number of digital inputs                                        | 4                            |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes                          |
| Input voltage                                                   |                              |
| • Type of input voltage                                         | DC                           |
| • Rated value (DC)                                              | 24 V                         |
| • for signal "0"                                                | -30 to +5 V                  |
| • for signal "1"                                                | +11 to +30V                  |
| Input current                                                   |                              |
| • for signal "1", typ.                                          | 8 mA                         |
| Input delay (for rated value of input voltage)                  |                              |
| for standard inputs                                             |                              |
| — parameterizable                                               | Yes; 0.1 / 0.5 / 3 / 15 ms   |
| — at "0" to "1", min.                                           | 0.05 / 0.4 / 2.7 / 14.85     |
| — at "0" to "1", max.                                           | 0.15 / 0.6 / 3.3 / 15.15     |
| — at "1" to "0", min.                                           | 0.05 / 0.4 / 2.7 / 14.85     |
| — at "1" to "0", max.                                           | 0.15 / 0.6 / 3.3 / 15.15     |
| Cable length                                                    |                              |
| • shielded, max.                                                | 1 000 m                      |
| • unshielded, max.                                              | 600 m                        |
| Encoder                                                         |                              |

|                                                                                              |                                                           |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Connectable encoders                                                                         |                                                           |
| • 2-wire sensor                                                                              | Yes                                                       |
| — permissible quiescent current (2-wire sensor), max.                                        | 1.5 mA                                                    |
| Interrupts/diagnostics/status information                                                    |                                                           |
| Diagnostics function                                                                         | Yes                                                       |
| Diagnoses                                                                                    |                                                           |
| • Short-circuit                                                                              | Yes; Short-circuit of outputs to ground; module by module |
| Diagnostics indication LED                                                                   |                                                           |
| • Group error SF (red)                                                                       | Yes                                                       |
| • Status indicator digital input (green)                                                     | Yes; per channel                                          |
| Parameter                                                                                    |                                                           |
| Remark                                                                                       | 3 byte                                                    |
| Diagnostics short-circuit                                                                    | Disable / enable                                          |
| Potential separation                                                                         |                                                           |
| Potential separation digital inputs                                                          |                                                           |
| • between the channels                                                                       | No                                                        |
| • between the channels and backplane bus                                                     | Yes                                                       |
| Isolation                                                                                    |                                                           |
| Isolation tested with                                                                        | 500 V DC                                                  |
| Dimensions                                                                                   |                                                           |
| Width                                                                                        | 15 mm                                                     |
| Height                                                                                       | 81 mm                                                     |
| Depth                                                                                        | 52 mm                                                     |
| Weights                                                                                      |                                                           |
| Weight, approx.                                                                              | 35 g                                                      |
| last modified:                                                                               |                                                           |
| 3/12/2024  |                                                           |