

SIMATIC DP, ELECTRON. MODULE F. ET200S, 4/8 F-DI  
PROFISAFE, 24V DC, 30 MM WIDTH UP TO CATEGORY 4  
(EN954-1) ALSO USEABLE IN PROFINET- NETWORK WITH  
IM151-3 HF

| Supply voltage                                                  |                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------|
| Rated value (DC)                                                |                                                     |
| • 24 V DC                                                       | Yes                                                 |
| permissible range, lower limit (DC)                             | 20.4 V                                              |
| permissible range, upper limit (DC)                             | 28.8 V                                              |
| Reverse polarity protection                                     | No                                                  |
| Encoder supply                                                  |                                                     |
| Number of outputs                                               | 2                                                   |
| Type of output voltage                                          | min. L+ (-1.5 V)                                    |
| Short-circuit protection                                        | Yes; Electronic (response threshold 0.7 A to 1.8 A) |
| Output current                                                  |                                                     |
| • Rated value                                                   | 300 mA                                              |
| • permissible range, lower limit                                | 0 mA                                                |
| • permissible range, upper limit                                | 300 mA                                              |
| Power loss                                                      |                                                     |
| Power loss, typ.                                                | 4 W                                                 |
| Address area                                                    |                                                     |
| Occupied address area                                           |                                                     |
| • Inputs                                                        | 6 byte                                              |
| • Outputs                                                       | 4 byte                                              |
| Digital inputs                                                  |                                                     |
| Number of digital inputs                                        | 8; 8 single channel, 4 two-channel                  |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes                                                 |
| Number of simultaneously controllable inputs                    |                                                     |
| • Number of simultaneously controllable inputs                  | 8                                                   |
| Input voltage                                                   |                                                     |
| • Rated value (DC)                                              | 24 V                                                |
| • for signal "0"                                                | -30 to +5V                                          |
| • for signal "1"                                                | +15 to +30V                                         |
| Input current                                                   |                                                     |
| • for signal "1", typ.                                          | 3.7 mA                                              |
| Input delay (for rated value of input voltage)                  |                                                     |

|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| for standard inputs                            |                                               |
| — parameterizable                              | Yes                                           |
| — at "0" to "1", min.                          | 0.3 ms                                        |
| — at "0" to "1", max.                          | 17 ms                                         |
| — at "1" to "0", min.                          | 0.3 ms                                        |
| — at "1" to "0", max.                          | 17 ms                                         |
| Cable length                                   |                                               |
| • shielded, max.                               | 200 m                                         |
| • unshielded, max.                             | 200 m                                         |
| Encoder                                        |                                               |
| Connectable encoders                           |                                               |
| • 2-wire sensor                                | No                                            |
| Interrupts/diagnostics/status information      |                                               |
| Diagnostic functions                           | Yes                                           |
| Diagnostics indication LED                     |                                               |
| • Group error SF (red)                         | Yes                                           |
| • Status indicator digital input (green)       | Yes                                           |
| Potential separation                           |                                               |
| Potential separation digital inputs            |                                               |
| • between the channels                         | No                                            |
| • between the channels and backplane bus       | Yes                                           |
| • Between the channels and load voltage L+     | No                                            |
| Standards, approvals, certificates             |                                               |
| Highest safety class achievable in safety mode |                                               |
| • acc. to EN 954                               | Cat. 3 (single-channel), Cat. 4 (two-channel) |
| • SIL acc. to IEC 61508                        | SIL 2 (single-channel), SIL 3 (two-channel)   |
| Dimensions                                     |                                               |
| Width                                          | 30 mm                                         |
| Height                                         | 81 mm                                         |
| Depth                                          | 52 mm                                         |
| Weights                                        |                                               |
| Weight, approx.                                | 78 g                                          |
| <b>last modified:</b>                          | 08/12/2017                                    |