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## Data sheet 6ES7138-4DC00-0AB0

SIMATIC DP, ELECTRONIC MODULE FOR ET 200S, 1 STEP 5V/204KHZ FOR POSITIONING STEPPER MOTOR 15MM WIDE, SINGLE CHANNEL, +/-5V INTERF. FOR POWER SECTION

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| • Rated value (DC) | 24 V |
| • Reverse polarity protection | Yes |
| **Input current** | |
| From load voltage L+ (no load), typ. | 40 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Power loss** | |
| Power loss, typ. | 1.5 W |
| **Digital inputs** | |
| Number of digital inputs | 2 |
| Functions | Input REF: reference cams, input DI: pulse disable or external stop |
| Repeat frequency, max. | 1 kHz |
| Input characteristic curve in accordance with IEC 61131, type 2 | Yes |
| Input voltage | |
| • Rated value (DC) | 24 V |
| • for signal "0" | -30 to +5 V (-15% / +20%) |
| • for signal "1" | +11 to +30V |
| Input current | |
| • for signal "0", max. (permissible quiescent current) | 2 mA |
| • for signal "1", typ. | 9 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — at "0" to "1", max. | 300 µs |
| — at "1" to "0", max. | 300 µs |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| **Encoder** | |
| Connectable encoders | |
| • 2-wire sensor | Yes |


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| Interrupts/diagnostics/status information | |
|---|---|
| Diagnostics indication LED | |
| • Description | 1 green LED for status indication "Ready for positioning jobs" |
| • Positioning mode POS (green) | Yes |
| • Group error SF (red) | Yes |
| • Status indicator digital input (green) | Yes |

| Integrated Functions | |
|---|---|
| Step-by-step controllers | |
| • Number of stepper motor channels | 1 |
| • Cable length, max. | 100 m; twisted and shielded in pairs |
| • Connection for stepper motors | Differential signals for pulses (PULSE, notPULSE) and direction (DIR, notDIR) to RS 422 |

| Dimensions | |
|---|---|
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |

| Weights | |
|---|---|
| Weight, approx. | 40 g |

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