

Data sheet

6ES7135-0HF01-0XB0

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE
ANALOG, FOR ET 200B, W=160MM, 4AO 0(4)...20MA; +/- 10V, 11
BIT, 12 MBIT/S

| Supply voltage | |
|---|--|
| Rated value (DC) | 24 V; Value at t < 0.5 s: 35 V |
| permissible range, lower limit (DC) | 18.5 V |
| permissible range, upper limit (DC) | 30.2 V |
| Input current | |
| Current consumption, max. | 200 mA; Logic |
| Power loss | |
| Power loss, typ. | 2.4 W |
| Hardware configuration | |
| Rack | |
| • required terminal block | TB8 |
| Analog outputs | |
| Number of analog outputs | 4 |
| Voltage output, short-circuit protection | Yes; Electronic; max. 1 output in parallel |
| Voltage output, short-circuit current, max. | 25 mA |
| Current output, no-load voltage, max. | 18 V |
| Output ranges, voltage | |
| • 0 to 10 V | Yes |
| • -10 V to +10 V | Yes |
| Output ranges, current | |
| • 0 to 20 mA | Yes |
| • 4 mA to 20 mA | Yes |
| Connection of actuators | |
| • for voltage output two-wire connection | Yes |
| • for voltage output four-wire connection | Yes |
| • for current output two-wire connection | Yes |
| Load impedance (in rated range of output) | |
| • with voltage outputs, capacitive load, max. | 1 µF |
| • with current outputs, max. | 300 Ω |
| • with current outputs, inductive load, max. | 1 mH |
| Cable length | |
| • shielded, max. | 100 m |
| Analog value generation for the outputs | |

| | |
|--|--------------------------|
| Integration and conversion time/resolution per channel | |
| • Resolution with overrange (bit including sign), max. | 11 bit; Two's complement |
| • Conversion time (per channel) | 1 ms |
| Settling time | |
| • for resistive load | 0.1 ms |
| • for capacitive load | 3.3 ms |
| • for inductive load | 0.5 ms |
| Errors/accuracies | |
| Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-) | 0.05 % |
| Linearity error (relative to output range), (+/-) | 0.05 % |
| Temperature error (relative to output range), (+/-) | 0.02 %/K |
| Crosstalk between the outputs, min. | 40 dB |
| Repeat accuracy in steady state at 25 °C (relative to output range), (+/-) | 0.05 % |
| Operational error limit in overall temperature range | |
| • Voltage, relative to output range, (+/-) | 0.05 % |
| • Current, relative to output range, (+/-) | 1 % |
| Basic error limit (operational limit at 25 °C) | |
| • Voltage, relative to output range, (+/-) | 0.2 % |
| • Current, relative to output range, (+/-) | 0.3 % |
| Interfaces | |
| PROFIBUS DP | |
| • Transmission rate, max. | 12 Mbit/s |
| Protocols | |
| Bus protocol/transmission protocol | PROFIBUS DP |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Diagnostic alarm | Yes; Parameterizable |
| Diagnostics indication LED | |
| • RUN LED | Yes |
| • Bus fault BF (red) | Yes |
| Potential separation | |
| between electronic block and PROFIBUS DP | Yes |
| Potential separation analog outputs | |
| • Potential separation analog outputs | No |
| Degree and class of protection | |
| Degree of protection acc. to EN 60529 | IP20 |
| Ambient conditions | |

| | |
|--|--|
| Ambient temperature during operation | |
| • horizontal installation, min. | 0 °C |
| • horizontal installation, max. | 60 °C; 40°C for other mountings |
| Air pressure acc. to IEC 60068-2-13 | |
| • permissible range, lower limit | 795 hPa |
| • permissible range, upper limit | 1 080 hPa |
| Relative humidity | |
| • Operation, min. | 15 % |
| • Operation, max. | 95 %; RH class 2 in accordance with IEC 1131-2 |
| Vibrations | |
| • Operation, tested according to IEC 60068-2-6 | Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g) |
| Shock test | |
| • tested according to IEC 60068-2-27 | Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms |
| Connection method | |
| Design of electrical connection for the inputs and outputs | Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection |
| Dimensions | |
| Width | 160 mm; EB and TB |
| Height | 130 mm; EB and TB |
| Depth | 60 mm; EB and TB |
| Weights | |
| Weight, approx. | 550 g; EB and TB |

last modified: 03/07/2017