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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

General information	
Usable terminal block	TB8
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
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	

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• 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

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• 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 testing	
• 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

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