

Siemens 6ES7135-4MB01-0AB0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	-

Description

2AO I High Feature analog electronic module (6ES7135-4MB01-0AB0)

Properties

2 outputs for current output

Output range:

- ± 20 mA, resolution 15 bits + sign
- 4 to 20 mA, resolution 15 bits
- Isolated from the load voltage L+
- Supports isochronous operation
- Minimum time for the synchronous DP cycle (TDPmin): 3.75 ms
- Minimum conversion time of the output modules: (TWAmin): 1.5 ms

Note

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Terminals 4, 8, A4, A8, A3 and A7 are only available at specified terminal modules.

Dimensions and Weight

Dimensions W × H × D (mm)

(the total dimensions depend on the selected terminal module)

15 x 81 x 52

Weight Approx. 40 g

Data for specific modules

Supports isochronous operation Yes

Number of outputs 2

Cable length

Shielded max. 200 m

Parameter length 7 bytes

Voltages, currents, potentials

Rated supply voltage of the electronics L+ 24 VDC

Reverse battery protection Yes

Galvanic isolation

Between the channels and backplane bus Yes

Between channels and power supply of the electronics

Yes

Between the channels no

Permissible potential difference

Between MANA and Minternal (UIISO) 75 VDC / 60 VAC

Insulation tested 500 VDC

Current consumption

From the power supply L+ max. 150 mA

Power dissipation of the module max. 2 W

Status, interrupts, diagnostics

Diagnostics function

Group error display Red "SF" LED

Diagnostic information readable Yes

Substitute values can be applied Yes, parameterizable

Analog value generation

Resolution (including sign) $\pm 20 \text{ mA}/16 \text{ bits}$

4 to 20 mA/15 bits

Conversion time (per channel) max. 1.0 ms

Settling time

For resistive load 0.25 ms

For capacitive load 1.0 ms

For inductive load 0.5 ms

Suppression of interference, limits of error

Crosstalk between the outputs > 60 dB

Operational limit (in the entire temperature range, with reference to the output range)

$\pm 0.07 \%$ (at 250 Ω load impedance)

$\pm 0.3 \%$ (for all other load impedances)

Basic error limit (operational limit at 25 °C with reference to output range)

$\pm 0.03 \%$ (at 250 Ω load impedance)

$\pm 0.26 \%$ (for all other load impedances)

Temperature error (with reference to the output range)

$\pm 0.001 \%/K$

Linearity error (with reference to the output range)

$\pm 0.02 \%$

Repeatability

(in steady state at 25 °C with reference to output range)

$\pm 0.01 \%$

Output ripple (with reference to output range, bandwidth 0 to 50 kHz)

$\pm 0.02 \%$

Data for selecting an actuator

Output range (rated value) $\pm 20 \text{ mA}$

4 to 20 mA

Load impedance (in the rated range of the output)

For current outputs

For inductive load

Max. 500 Ω

1 mH

Current output

Open circuit voltage 18 V

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Destruction limit against voltages/currents

applied from outside

Voltage at the outputs to MANA 15 V continuous; 75 V for max. 1 ms

(sampling ratio 1:20)

Current max. 50 mA DC

Connection of actuators

Current output

Two-wire connection supported

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