

Siemens 6ES7432-1HF00-0AB0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	-

Description

6ES7432-1HF00-0AB0

SIMATIC S7-400, analog output SM 432, isolated 8 AO; resolution 13 bit, U/I

Supply voltage

Load voltage L+

- Rated value (DC) 24 V
- Reverse polarity protection Yes

Input current

from supply and load voltage L+ (without load), max. 200 mA; at rated load: max. 400 mA

from backplane bus 5 V DC, max. 150 mA

Power loss

Power loss, typ. 9 W

Analog outputs

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Number of analog outputs 8

Voltage output, short-circuit protection Yes

Voltage output, short-circuit current, max. 30 mA

Current output, no-load voltage, max. 19 V

Output ranges, voltage

- 0 to 10 V Yes
- 1 V to 5 V Yes
- -10 V to +10 V Yes

Output ranges, current

- 0 to 20 mA Yes
- -20 mA to +20 mA Yes
- 4 mA to 20 mA Yes

Load impedance (in rated range of output)

- with voltage outputs, min. 1 k Ω
- with voltage outputs, capacitive load, max. 1 μ F
- with current outputs, max. 500 Ω ; 600 ohms if common-mode-voltage reduced to <1 V

Cable length

- shielded, max. 200 m

Analog value generation for the outputs

Integration and conversion time/resolution per channel

- Resolution with overrange (bit including sign), max. 13 bit
- Conversion time (per channel) 420 μ s; 420 μ s in the ranges 1 to 5 V and 4 to 20 mA; 300 μ s in all ranges

Settling time

- for resistive load 0.1 ms
- for capacitive load 3.5 ms
- for inductive load 0.5 ms

Errors/accuracies

Operational error limit in overall temperature range

- Voltage, relative to output range, (+/-) 0.5 %; ± 10 V, 0 to 10 V, 1 to 5 V
- Current, relative to output range, (+/-) 1 %; ± 20 mA, 4 to 20 mV

Basic error limit (operational limit at 25 °C)

- Voltage, relative to output range, (+/-) 0.5 %; ± 10 V, 0 to 10 V, 1 to 5 V
- Current, relative to output range, (+/-) 0.5 %; ± 20 mA, 0 to 20 mA

Interrupts/diagnostics/status information

Diagnostics function No

Potential separation

Potential separation analog outputs

- between the channels No
- between the channels and backplane bus Yes
- Between the channels and load voltage L+ Yes

Isolation

Isolation tested with 2 120 V DC between bus and L+/M; 2 120 V DC between bus and analog section; 500 V DC between bus and local ground; 500 V DC between analog section and L+/M; 2 120 V DC between analog section and local ground; 2 120 V DC between L+/M and local ground

Dimensions

Width 25 mm

Height 290 mm

Depth 210 mm

Weights

Weight, approx. 650 g

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