

Siemens 6ES7350-1AH03-0AE0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	RS 422

Description

6ES7350-1AH03-0AE0

SIMATIC S7-300, Counter module FM 350-1 for S7-300, Counter functions up to

500 kHz 1 channel for connection of 5 V and 24 V incremental encoders

Isochronous mode; Measuring range types incl. configuration package on CD

Supply voltage

Auxiliary voltage 1L+, load voltage 2L+

- Rated value (DC) 24 V
- permissible range, lower limit (DC) 20.4 V; Dynamic 18.5 V
- permissible range, upper limit (DC) 28.8 V; dynamic 30.2 V

Input current

from load voltage 1L+ (without load), max. 40 mA

from backplane bus 5 V DC, max. 160 mA

Encoder supply

5 V encoder supply

- 5 V Yes; 5.2 V $\pm 2\%$
- Output current, max. 300 mA

24 V encoder supply

- 24 V Yes; 1L+ (-3 V)
- Output current, max. 400 mA

Power loss

Power loss, typ. 4.5 W

Digital inputs

Number of digital inputs 3

Functions 1 for gate start, 1 for gate stop, 1 for setting the counter

Input voltage

- for signal "0" -28.8 ... +5V
- for signal "1" +11 to +28.8V

Input current

- for signal "1", typ. 9 mA

Digital outputs

Number of digital outputs 2

Short-circuit protection Yes; Clocked electronically

Limitation of inductive shutdown voltage to 2L+ (-39 V)

Output voltage

- for signal "0", max. 3 V
- for signal "1", min. 2L+ (-1,5 V)

Output current

- for signal "1" rated value 0.5 A
- for signal "1" permissible range for 0 to 60 °C, min. 5 mA

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- for signal "1" permissible range for 0 to 60 °C, max. 0.6 A

Output delay with resistive load

- "0" to "1", max. 300 µs

Encoder

Connectable encoders

- Incremental encoder (symmetrical) Yes; With 2 pulse trains offset by 90°
- Incremental encoder (asymmetrical) Yes
- 24 V initiator Yes
- 24 V directional element Yes; 1 pulse train, 1 direction level

Counter

Number of counter inputs 1; 32 bit or ± 31 bit

Counter input 5 V

- Type RS 422
- Terminating resistor 220 Ω
- Differential input voltage 1,3 V
- Counting frequency, max. 500 kHz

Counter input 24 V

- Input voltage for signal "0" -28.8 ... +5V
- Input voltage for signal "1" +11 to +28.8V
- Input current for signal "1", typ. 9 mA
- Counting frequency, max. 200 kHz
- Minimum pulse width 2.5 µs

Potential separation

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Potential separation digital inputs

- between the channels and backplane bus Yes; Optocoupler

Potential separation digital outputs

- between the channels and backplane bus Yes; Optocoupler

Potential separation counter

- between the channels and backplane bus Yes; Optocoupler

Isolation

Isolation tested with 500 V

connection method

required front connector 1x 20-pin

Dimensions

Width 40 mm

Height 125 mm

Depth 120 mm

Weights

Weight, approx. 250 g