

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

S7-300

6ES7335-7HG01-0AB0

HIGH-SPEED ANALOG I/O MODULE

Used with the applicable SIMATIC industrial automation configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation

SIMATIC S7-300

Analog modules

SM 335 fast analog hybrid module

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Technical specifications (continued)

SM 335	
Output for supplying the transducer (short-circuit proof)	10 V/25 mA
Data for encoder supply output	
Rated voltage	10 V
Output current, max.	25 mA
Short-circuit proof	Yes
Operating limits (over entire temperature range)	0.2%
Temperature error	0.002%/K
Basic error for rated voltage	0.1%
Outputs	
Resolution (including overcontrol range)	
• ± 10 V	11 bits + sign
• from 0 V ... 10 V	12 bits
Conversion time per channel, max.	800 μ s
Settling time	
• for resistive load	< 0.1 ms
• for capacitive load	< 3.3 ms
• for inductive load	< 0.5 ms
Interference between outputs	40 dB
Substitute values can be switched in	Yes
Operational limits (over entire temperature range, referred to output range)	0.5%

SM 335	
Basic error limit (operational limits at 25 °C, referred to output range)	0.2%
Linearity error (referred to output range)	$\pm 0.05\%$
Repeatability (under steady-state conditions, at 25 °C, referred to output range)	$\pm 0.05\%$
Output ripple (referred to output range)	$\pm 0.05\%$
Actuator selection data	
Input ranges (rated values)	± 10 V and 0 V ... 10 V (switchover)
Load impedance	
• for voltage outputs, min.	3 k Ω
• for capacitive load, max.	1 μ F
• for inductive load, max.	1 mH
Voltage output	
• Short-circuit proof	Yes
• Short-circuit current, max.	8 mA
Connection of the actuators for voltage output	
• as 2-wire connection	possible
• as 4-wire connection	not possible
Dimensions and weight	
Dimensions (w x h x d)	40 mm x 125 mm x 120 mm
Weight, approx.	300 g

Ordering data

Order No.

SM 335 fast analog hybrid module

4 inputs, 4 outputs, 1 pulse input and encoder supply

6ES7 335-7HG01-0AB0**Interference suppressor filter for SM 335**

to achieve the noise immunity common to SIMATIC S7; the filter is connected into the 24-V power supply circuit for the SM 335, and can protect up to four SM 335 modules

6ES7 335-7HG00-6AA0**SM 335 manual**

German

6ES7 335-7HG00-8AA1

English

6ES7 335-7HG00-8BA1

Order No.

Front connector

20-pin, with screw-type terminals

- 1 unit
- 100 units

6ES7 392-1AJ00-0AA0**6ES7 392-1AJ00-1AB0****Shield connecting element**

80 mm wide, with 2 rows for 4 shielding connection clamps each

6ES7 390-5AA00-0AA0**Shielding connection clamps**

2 units

For 2 cables with 2 mm to 6 mm diameter

6ES7 390-5AB00-0AA0

For 1 cable with 3 mm to 8 mm diameter

6ES7 390-5BA00-0AA0

For 1 cable with 4 mm to 13 mm diameter

6ES7 390-5CA00-0AA0