

SIEMENS

Product data sheet

6ES7334-0KE00-0AB0


SIMATIC S7-300, ANALOG MODULE SM 334,
OPTICALLY ISOLATED, 4AE/2AA, 12 BIT,
0-10V F. PT100 (CLIMAT RANGE -120 - 155 DEGR.)
AND 10 KOHM MEASURING RANGE,
1 X 20 PIN

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 5 V DC, max.	60 mA
Power losses	
Power loss, typ.	2 W
Analog inputs	
Number of analog inputs	4
Number of analog inputs for voltage measurement	2
Number of analog inputs for resistance measurement	4
permissible input voltage for voltage input (destruction limit), max.	20 V ; continuous; 75 V for max. 1 s (mark to space ratio 1:20)
Cycle time (all channels) max.	85 ms

Input ranges	
Voltage	Yes
Current	No
Resistance thermometer	Yes
Resistance	Yes
Input ranges (rated values), voltages	
0 to +10 V	Yes
Input resistance (0 to 10 V)	100 kΩ
Input ranges (rated values), resistance thermometers	
Pt 100	Yes ; only climatic range
Input ranges (rated values), resistors	
0 to 10000 ohms	Yes
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	10 mA
Output ranges, voltage	
0 to 10 V	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	2.5 kΩ
with voltage outputs, capacitive load, max.	1 μF
Cable length	
Cable length, shielded, max.	100 m
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	12 bit
Integration time, ms	16.67/20 ms
Settling time	
for resistive load	0.8 ms
for capacitive load	0.8 ms
Encoder	
Connection of signal encoders	

for resistance measurement with 2-conductor connection	Yes
for resistance measurement with 3-conductor connection	Yes
for resistance measurement with 4-conductor connection	Yes
Errors/accuracies	
Operational limit in overall temperature range	
Voltage, relative to input area	+/- 0,7 % ; 0 to 10 V
Impedance, relative to input area	+/- 3,5 % ; 10 kOhm
Resistance-type thermometer, relative to input area	+/- 1 %
Voltage, relative to output area	+/- 1 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input area	+/- 0,5 % ; 0 to 10 V
Impedance, relative to input area	+/- 2,8 % ; 10 kOhm
Resistance-type thermometer, relative to input area	+/- 0,8 %
Voltage, relative to output area	+/- 0,85 %
Interrupts/diagnostics/status information	
Alarms	
Alarms	No
Diagnostic messages	
Diagnostic functions	No
Galvanic isolation	
Galvanic isolation analog inputs	
between the channels and the backplane bus	Yes
Galvanic isolation analog outputs	
between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	500 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm

Height	125 mm
Depth	120 mm
Weight	
Weight, approx.	200 g
Status	Jul 17, 2012