SIEMENS

Data sheet

6ES7334-0KE00-0AB0



SIMATIC S7-300, Analog module SM 334, isolated, 4 Al/2 AO, 12 bit, 0-10 V f. Pt100 (climatic range -120-155 degrees) and 10 kOhm measuring range, 1x 20-pole

Figure simila

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.	80 mA
from backplane bus 5 V DC, max.	60 mA
Power loss	
Power loss, typ.	2 W
Analog inputs	
Number of analog inputs	4
 For voltage measurement 	2
 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)
Constant measurement current for resistance-type transmitter, typ.	490 μA; at PT100 (490 μA), at 10 kOhm (105 μa)
Cycle time (all channels) max.	85 ms
Input ranges	
Voltage	Yes
Current	No
 Thermocouple 	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 thermometer	
● Pt 100	Yes; only climatic range
Input ranges (rated values), resistors	
• 0 to 10000 ohms	Yes
Characteristic linearization	
parameterizable	Yes
— for resistance thermometer	Pt100 (climate)
Cable length	
• shielded, max.	100 m
Analog outputs	

Number of analog subside	2
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	30 mA
Output ranges, voltage	V
• 0 to 10 V	Yes
Load impedance (in rated range of output)	2510
with voltage outputs, min.	2.5 kΩ
with voltage outputs, capacitive load, max.	1μF
Cable length • shielded, max.	100 m
	100 111
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	40.1%
Resolution with overrange (bit including sign), max.	12 bit
• Integration time, parameterizable	Yes
Integration time (ms)	16,67 / 20 ms
 Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit
Conversion time (per channel)	500 μs
Settling time	
 for resistive load 	0.8 ms
for capacitive load	0.8 ms
Encoder	
Connection of signal encoders	
 for voltage measurement 	Yes
 for resistance measurement with two-wire connection 	Yes
 for resistance measurement with three-wire connection 	Yes
 for resistance measurement with four-wire connection 	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
 Voltage, relative to input range, (+/-) 	0.7 %; 0 to 10V
 Resistance, relative to input range, (+/-) 	3.5 %; 10 kOhm
 Resistance thermometer, relative to input range, (+/-) 	1 %
 Voltage, relative to output range, (+/-) 	1 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input range, (+/-)	0.5 %; 0 to 10V
• Resistance, relative to input range, (+/-)	2.8 %; 10 kOhm
Resistance thermometer, relative to input range, (+/-)	0.8 %
Voltage, relative to output range, (+/-)	0.85 %
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Potential separation	
Potential separation analog inputs	Ven
between the channels and backplane bus Petential congretion angles outputs	Yes
Potential separation analog outputs	No
 between the channels 	No
a behave on the elements and beautiful	Vac
between the channels and backplane bus	Yes
• between the channels and the power supply of the electronics	Yes Yes
 between the channels and the power supply of the 	

Connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
_ Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	200 g	

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