



SIMATIC S7-300, Analog module SM 334, Non-isolated 4 AI/2 AO, 1x 20-pole, Removing and inserting possible with active backplane bus

Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
Input current	
from supply and load voltage L+ (without load), max.	110 mA
from backplane bus 5 V DC, max.	55 mA
Power loss	
Power loss, typ.	3 W
Analog inputs	
Number of analog inputs	4
• For voltage measurement	4
permissible input voltage for voltage input (destruction limit), max.	20 V
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	5 ms
Input ranges	
• Voltage	Yes
• Current	Yes
• Thermocouple	No
• Resistance thermometer	No
• Resistance	No
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	100 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
— Input resistance (0 to 20 mA)	50 Ω
Cable length	
• shielded, max.	200 m
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	11 mA
Current output, no-load voltage, max.	15 V
Output ranges, voltage	
• 0 to 10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
Load impedance (in rated range of output)	

• with voltage outputs, min.	5 kΩ	
• with voltage outputs, capacitive load, max.	1 μF	
• with current outputs, max.	300 Ω	
• with current outputs, inductive load, max.	1 mH	
<b>Cable length</b>		
• shielded, max.	200 m	
<b>Analog value generation for the inputs</b>		
Integration and conversion time/resolution per channel		
• Resolution with overrange (bit including sign), max.	8 bit	
• Integration time, parameterizable	No	
<b>Analog value generation for the outputs</b>		
Integration and conversion time/resolution per channel		
• Resolution with overrange (bit including sign), max.	8 bit	
• Conversion time (per channel)	500 μs	
<b>Settling time</b>		
• for resistive load	0.3 ms	
• for capacitive load	3 ms	
• for inductive load	0.3 ms	
<b>Encoder</b>		
Connection of signal encoders		
• for voltage measurement	Yes	
• for current measurement as 2-wire transducer	No	
• for current measurement as 4-wire transducer	Yes	
<b>Errors/accuracies</b>		
Operational error limit in overall temperature range		
• Voltage, relative to input range, (+/-)	0.9 %	
• Current, relative to input range, (+/-)	0.8 %	
• Voltage, relative to output range, (+/-)	0.6 %	
• Current, relative to output range, (+/-)	1 %	
Basic error limit (operational limit at 25 °C)		
• Voltage, relative to input range, (+/-)	0.7 %	
• Current, relative to input range, (+/-)	0.6 %	
• Voltage, relative to output range, (+/-)	0.5 %	
• Current, relative to output range, (+/-)	0.5 %	
<b>Interrupts/diagnostics/status information</b>		
Alarms	No	
Diagnostics function	No	
<b>Potential separation</b>		
Potential separation analog inputs		
• between the channels and backplane bus	No	
Potential separation analog outputs		
• between the channels	No	
• between the channels and backplane bus	No	
• between the channels and the power supply of the electronics	Yes	
<b>Isolation</b>		
Isolation tested with	500 V DC	
<b>connection method</b>		
required front connector	20-pin	
<b>Dimensions</b>		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
<b>Weights</b>		
Weight, approx.	285 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	27-24-22-01
eClass	12	27-24-22-01

eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05

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