



Figure similar

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

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

Approvals / Certificates

General Product Approval



General Product Approval EMV Test Certificates



Marine / Shipping other



other Environment

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