



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										
	<table><tr><td></td><td>Version</td><td>Classification</td></tr><tr><td>eClass</td><td>14</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>12</td><td>27-24-22-01</td></tr></table>		Version	Classification	eClass	14	27-24-22-01	eClass	12	27-24-22-01
	Version	Classification								
eClass	14	27-24-22-01								
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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



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[Type Test Certificates/Test Report](#)

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last modified: 3/12/2024