SIEMENS

Data sheet

6ES7332-5HB01-0AB0



SIMATIC S7-300, Analog output SM 332, isolated, 2 AO, U/I; resolution 11/12 bits, 20-pole, Removing/inserting with active backplane bus possible

Figure similar

Supply voltage		
Load voltage L+		
 Rated value (DC) 	24 V	
 Reverse polarity protection 	Yes	
Input current		
from load voltage L+ (without load), max.	135 mA	
from backplane bus 5 V DC, max.	60 mA	
Power loss		
Power loss, typ.	3 W	
Analog outputs		
Number of analog outputs	2	
Voltage output, short-circuit protection	Yes	
Voltage output, short-circuit current, max.	25 mA	
Current output, no-load voltage, max.	18 V	
Output ranges, voltage		
• 0 to 10 V	Yes	
• 1 V to 5 V	Yes	
• -10 V to +10 V	Yes	
Output ranges, current		
• 0 to 20 mA	Yes	
• -20 mA to +20 mA	Yes	
• 4 mA to 20 mA	Yes	
Load impedance (in rated range of output)		
 with voltage outputs, min. 	1 kΩ	
 with voltage outputs, capacitive load, max. 	1 μF	
 with current outputs, max. 	500 Ω	
with current outputs, inductive load, max.	10 mH	
Cable length		
• shielded, max.	200 m	
Analog value generation for the outputs		
Integration and conversion time/resolution per channel		
Resolution with overrange (bit including sign), max.	12 bit; ± 10 V, ± 20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0 mA to 20 mA: 12 bit	
Conversion time (per channel)	0.8 ms	
Settling time		
 for resistive load 	0.2 ms	
 for capacitive load 	3.3 ms	
 for inductive load 	0.5 ms; 0.5 ms (1 mH); 3.3 ms (10 mH)	

Errors/accuracies		
Operational error limit in overall temperature range		
Voltage, relative to output range, (+/-)	0.5 %	
 Current, relative to output range, (+/-) 	0.6 %	
Basic error limit (operational limit at 25 °C)		
 Voltage, relative to output range, (+/-) 	0.4 %	
 Current, relative to output range, (+/-) 	0.5 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Parameterizable	
Alarms		
Diagnostic alarm	Yes; Parameterizable	
Diagnoses		
Diagnostic information readable	Yes	
Diagnostics indication LED		
 Group error SF (red) 	Yes	
Potential separation		
Potential separation analog outputs		
 between the channels 	No	
 between the channels and backplane bus 	Yes	
 Between the channels and load voltage L+ 	Yes	
 between the channels and the power supply of the electronics 	Yes	
Isolation		
Isolation tested with	500 V DC	
connection method / header		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	220 g	

1/17/2021

last modified: